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# Discovery Report

Lower Republican Custom Watershed

HUCs 10250016, 10250017

November 2021

MIP Case Number: 20-07-0017S



**FEMA**



# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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## Acronyms and Abbreviations

CNMS	Coordinated Needs Management Strategy
CPRI	calculated priority risk index
CRS	Community Rating System
CSLF	Changes Since Last FIRM
CTP	Cooperating Technical Partner
DASC	Data Access & Support Center
DEM	digital elevation model
DFIRM	Digital Flood Insurance Rate Map
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
FRD	Flood Risk Database
GIS	Geographic Information System
HMP	Hazard Mitigation Plan
HUC-8	Hydrology Unit Code 8
KDA	Kansas Department of Agriculture
LiDAR	Light Detection and Ranging
MHMP	Multi-Hazard Mitigation Plan
NFIP	National Flood Insurance Program
NID	National Inventory of Dams
NOAA	National Oceanic and Atmospheric Agency
Risk MAP	Risk Mapping, Assessment, and Planning
SFHA	Special Flood Hazard Area
USGS	United States Geological Survey



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## 1 INTRODUCTION AND DISCOVERY OVERVIEW

This chapter outlines the contents of this Discovery Report and describes the Discovery process for FEMA's Risk Mapping, Assessment, and Planning (Risk MAP) Program (FEMA, 2012a,b).

### 1.1. Risk Mapping, Assessment, and Planning and Discovery Process Overview

The purpose of this Discovery Report is to provide a foundation for potential future FEMA flood risk projects. The Discovery process is part of the Risk MAP Program that is considered on a watershed basis (developed from Hydrology Unit Code 8 [HUC-8] boundaries) rather than a community or county-wide basis. The vision and intent of the Risk MAP Program is to deliver quality data that increases public awareness, leading to mitigation actions that reduce risk to life and property through collaboration with state and local entities. A Risk MAP project may include regulatory mapping, risk assessment, mitigation planning, technical assistance, and outreach and communications assistance.

To qualify for a Risk MAP project, a watershed must go through the Discovery process first. Discovery provides for the exchange of information between local, state, federal, and private-sector stakeholders, and includes meetings with stakeholders to better understand the watershed, decide whether a flood risk project is appropriate, and if so, collaborate on the project planning in detail. This report, along with the Discovery map, summarizes the information gathered as part of the Discovery process, what challenges and issues the watershed and communities face, and what products or actions would be useful or are necessary for the community in reducing its flood risk.

### 1.2. Lower Republican Project Objectives

The Lower Republican watershed is in north central Kansas and includes portions of the following HUC-8 watersheds: Lower Republican (10250017) and Middle Republican (10250016). The watershed locations are shown in Figure 1.

The Discovery process was initiated in Summer 2021, gathering readily available data to determine area needs for Risk MAP products, to assist communities in becoming more resilient. Kansas Department of Agriculture (KDA) initiated Discovery engagement in September and October 2021, reaching out to communities and introducing the Discovery process. The communities also were contacted in September 2021, leading up to the Discovery meeting held on December 2021. The counties entirely in the study area were contacted as well as their largest cities. Cities that had experienced significant past flooding events also were contacted.



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The project team (KDA and its consultant, AECOM) reached out to these communities to:

- Gather information about local flood risk and flood hazards, as well as non-flood risk hazards (e.g., severe weather, wildfire);
- Review and discuss community mitigation plans, to understand local capabilities, priorities, and future mitigation activities; and
- Evaluate county-wide risks, challenges, and priorities, as well as specific actions and objectives for respective communities.

Calls were made in early September 2021 and most of the communities that were contacted looked forward to attending the Discovery meeting. Table 1 shows those contacted with a brief description of what was discussed. A more detailed table outlining the call dates, e-mail addresses and phone numbers of those contacted, and those who received voicemails is provided in Appendix C, along with the follow-up messages sent to those contacted.

The communities that were contacted had a wide range of thoughts and concerns regarding risk. Many communities stated that flooding was not on a concern, while others did have flooding concerns. Communities that stated flooding as a community risk were the cities of Clifton, Jamestown, Randall, Scandia, Wakefield, and Michell County. Specific flooding information is bolded in Table 1 below.

**Table 1: Community Calls – Call Summaries**

County	Entity	Name	Title	Call Summary
Clay	Clay County	Pam Kemp	Emergency Management Coordinator	The City clerk asked that an email be sent to Ms. Kemp. Email request for information was sent on September 2, 2021.
Clay	City of Morganville	Wayne Rowh	City of Morganville Water	Mr. Rowh asked that a follow-up email be sent rather than discussing areas of concern over the phone. Follow up email was sent on September 2, 2021.
Clay	City of Wakefield	Jeff Ochs	City Superintendent	Spoke with Jeff and sent a follow up email September 2, 2021. Historic flooding in 2019 in Wakefield. Part of the town was inundated by flood waters, but no residences were affected. The water in <b>Milford Lake</b> rose to approximately 30-33 feet high. The existing city water well field was very close to the flooding. It previously was built up above the floodplain but would pose a problem if the well houses were inundated by future flood events. The City clerk may know of spatial data to support our study, but Mr. Ochs is not aware of any himself.
Clay	City of Clay Center	Kent Hessling	City Sewer and Water	Follow up email sent on September 3, 2021.
Cloud	Cloud County	James Quillen	Emergency Management Director	Voicemail left and follow up email sent on September 3, 2021.
Cloud	City of Concordia	Ron Copple	Public Works Director	Voicemail left and follow up email sent on September 3, 2021.



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County	Entity	Name	Title	Call Summary
Cloud	City of Jamestown	Jacob Thoman	Public Works Superintendent	Spoke with Jacob and sent a follow up email October 15, 2021. <b>Buffalo Creek</b> north of Jamestown can flood. When the water rises, it can flow back into a drainage ditch into Jamestown, but this does not happen very often. In 2015 (approximately 6 years ago), this flooding caused a park to flood. The city drainage system is old and could use maintenance (currently has a lot of deposited sediment). City Records may have spatial data or other data we could potentially use for our study.
Cloud	City of Aurora	Robert Letourneau	City Water	Phone number was residential. Sent an email to Mr. Letourneau September 3, 2021.
Cloud	City of Clyde	Kevin Bergstrom	City Water	Left a voicemail and sent a follow up email September 3, 2021.
Geary	Geary County	Corwyn Trumpp	Public Works Director	Follow up email sent September 3, 2021.
Geary	City of Milford	Brad Roether	Mayor	Voicemail left and follow up email sent September 3, 2021.
Geary	City of Junction City	Ray Ibarra	Public Works	Voicemail left and follow up email sent September 3, 2021.
Jewell	Jewell County	Kevin Peroutek	Emergency Management Coordinator	Follow up email sent September 3, 2021.
Jewell	City of Jewell	David Knappert	City Maintenance	Voicemail and follow up email sent October 15, 2021.
Jewell	City of Randall	Matthew Gilbert	City Water	Spoke with Matthew and sent a follow up email October 15, 2021. Existing flood hazards in Randall include <b>Buffalo Creek</b> which regularly overflows every Spring. No additional Hazard Mitigation Plan (HMP) for the City or data that we could leverage for our study.
Jewell	City of Burr Oak	Mike Harris	Mayor	Spoke with Mike and sent a follow up email October 15, 2021. No existing flood hazards in Burr Oak – last flood occurred around 1950. No additional HMP for the City or data that we could leverage for our study.
Jewell	City of Formoso	Robert Roush	City Water and Sewer	Spoke with Robert and sent a follow up email October 15, 2021. There are no existing flood hazards or flooding related issues that he is aware of in Formoso. There are also no additional HMPs for the City or data that we could leverage for our study.
Jewell	City of Mankato	Matthew Badger	Water Superintendent	Voicemail left and follow up email sent on October 15, 2021.
Jewell	City of Webber	Lisa Boyles	Mayor	Voicemail left and follow up email sent on October 15, 2021.
Mitchell	Mitchell County	David Dohe	Emergency Management Director	Follow up email sent on October 15, 2021. David responded. Solomon Valley Veterinary Hospital in Beloit, Kansas, and a residence located on Felix Trail, Glen Elder, Kansas, both experience flooding or flood-related issues.
Mitchell	City of Scottsville	Brian Stillwell	Mayor	Message left with Priscilla Stillwell (City Clerk) and follow email sent on October 15, 2021.



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County	Entity	Name	Title	Call Summary
Republic	Republic County	Raymond Raney	Emergency Management Director	Voicemail left and follow up email sent on October 15, 2021.
Republic	City of Belleville	Brian Phillips	Public Works	Voicemail left and follow up email sent on October 15, 2021.
Republic	City of Republic	Jim Elliot	City Maintenance	Follow up email sent on October 15, 2021.
Republic	City of Scandia	Gary Cline	Mayor	Spoke with Gary on September 2, 2021 and sent a follow up email. Main hazards in the city are flooding, tornados, and thunderstorms. <b>The city is near the Republican River to the West.</b> Flooding occurs on the west side of the city. There are drainage ditches that flow from east to west that can handle runoff when the river has not seen a big rain event. When larger storms roll through and the <b>Republican River</b> is at a high stage, the drainage basins have no place to drain and in turn cause flooding. Homes on the west side of town flood – around three or four of them see recurring flooding. Along Republic Street, a homeowner had to move from there for higher ground. Kansas and 1 <sup>st</sup> Street has a drainage ditch that crosses the road and frequently floods during storm events. The city puts signage to stop people from crossing the road. The city does not have a lot of data but when the rains come, the layout of the waterlines match the current flood maps. There is not a lot of planned development but there is a need for housing and the only available plots in the city are within the existing flood zone.
Republic	City of Courtland	Marriah Sis	City Clerk	Spoke with Marriah and sent a follow up email on September 8, 2021. The main hazards that exist within the city are normal thunderstorms that roll through the area. There is not a lot of flooding in the area. There is also not a lot of future development currently planned.
Republic	City of Agenda	Dale Kopsa	Water (Council Member)	Spoke with Dale on September 8, 2021. He said an email would be better. Follow up email sent on September 8, 2021.
Washington	Washington County	Randy Hubbard	Emergency Management Director	Spoke with Randy on September 2, 2021 and sent a follow up email. No residents within the county (structures) reside within Flood Zones. The Gas substation outside of Palmer could be a risk. Not a lot of roads overtopping but maybe a few rural roads during significant rain events. There is not a lot of future development planned. There is a heavy population of dairy farmers in the county with lagoons – KDA should have all that livestock information. There is also beef feedlots and production in the county.
Washington	City of Linn	Ned Peters	Water	Left a voicemail on September 2, 2021.
Washington	City of Linn	Donald Lehman	Public Works	Left a voicemail on September 2, 2021.



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County	Entity	Name	Title	Call Summary
Washington	City of Clifton	Gary Bouley	Public Works	Spoke with Gary on September 2, 2021. No hazards in the City in terms of flash floods but there have been a few tornados close by. There are some water pooling problems during bigger storms that occur in the south west portion of the city working its way to the east. The north side of town sits slightly higher and has not seen any flooding issues. There is a <b>main ditch on the south side of town that backs up and can cause flooding</b> (cleanup efforts needed). Open ditch that flows through culverts. Not much future development planned, and Gary is not aware of any data the city has that could be leveraged in this study.

The results of the Discovery process for the project area are provided in this report. Digital data submitted with this report contains materials used at the Discovery meeting, geographic information system data, mapping documents (i.e., PDF, shapefiles, ESRI ARCGIS map exchange documents), and other supplemental data.



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## 2 LOWER REPUBLICAN GENERAL INFORMATION

### 2.1 Geography and Hydraulic Characteristics

The Lower Republican Watershed encompasses approximately 2,778 square miles of north central Kansas and includes portions of Clay, Cloud, Dickinson, Geary, Jewell, Mitchell, Phillips, Republic, Riley, Smith, and Washington Counties. The watershed spans the High Plains, Smoky Hills, and Flint Hills Uplands physiographic regions of Kansas. Land use in the watershed is a mix of cropland mixed with grassland with small specks of urban residential. Water in the watershed is predominantly for use in irrigation with a small percentage of the water use for municipal usage.

The Republican River is the largest river in the Lower Republican Watershed flowing east through Nebraska until it bends south into Republican County. The river is formed by the confluence of the North Fork of the Republican River and the Arikaree River in south eastern Nebraska where they meet and flow east. The headwaters of the North Fork Republican River and the Arikaree River are in the eastern plains of Colorado about 100 miles east of Denver. The Republican River flows through the cities of Concordia, Clyde, Clifton, Clay Center, Scandia, Wakefield, and Milford.

There are other smaller rivers within the watershed that ultimately drain into the Republican River. White Rock Creek flows east through Smith and Jewell Counties into Lovewell Reservoir in the northwest corner of Jewell County. The outflow of the reservoir then meets with the Republican River in Republic County. Buffalo Creek, which starts in Jewell County, runs east through Cloud County until meeting the Republican River in the north central portion of the county. From Cloud County, the Republican River then flows east in Clay County where it turns and flows southeast into Milford Lake. Milford Lake covers portions of Clay and Geary County, with the majority of the lake in the northeastern corner of Geary County. The outflow of Milford Lake joins the Smoky Hill River to form the Kansas River just north of Junction City. Another stream of note is Mulberry Creek which flows through Cloud and Clay counties.

The Republican River is a part of the Republican River Compact, which was formed to allocate and regulate the waters of the Republican River. The compact, negotiated in response to the drought and flood experienced in the 1930s, outlines special restrictions for the Republican River and many of its tributaries.

### 2.2 Population and Communities

In the Lower Republican Watershed, Clay, Cloud, Dickinson, Geary, Mitchell, Republic, Riley, and Washington Counties as well as communities in Jewell, Phillips, and Smith Counties participate in FEMA's National Flood Insurance Program (NFIP). Community participation is shown in Table 2.

The Lower Republican project area has 33 incorporated communities, spanning 9 counties. The City of Junction City is the watershed's highest population center, with an estimated population

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of 23,353, based on the 2010 Census. Table 3 shows all the communities in the watershed and their respective 2010 populations.

**Table 2: National Flood Insurance Program Participating Communities**

Community	County	Participating Community? (Y/N)	Flood Insurance Rate Map Effective Dates
Agenda, City of	Republic	Y	December 17, 2010
Aurora, City of	Cloud	Y	July 16, 2014
Belleville, City of	Republic	Y	December 17, 2010
Burr Oak, City of	Jewell	N	X
Clay County	Clay	Y	May 5, 2014
Clay Center, City of	Clay	Y	May 5, 2014
Clifton, City of*	Washington	Y	November 18, 2015
Cloud County	Cloud	Y	July 16, 2014
Clyde, City of	Cloud	Y	July 16, 2014
Concordia, City of	Cloud	Y	July 16, 2014
Courtland, City of	Republic	Y	December 17, 2010
Cuba, City of	Republic	Y	December 17, 2010
Dickinson County	Dickinson	Y	June 2, 2004
Esbon, City of	Jewell	N	X
Formoso, City of	Jewell	N	X
Fort Riley, CDP	Riley	Y	March 16, 2015
Geary County	Geary	Y	April 5, 2016
Green, City of	Clay	Y	May 5, 2014
Greenleaf, City of	Washington	Y	November 18, 2015
Jamestown, City of	Cloud	Y	July 16, 2014
Jewell, City of	Jewell	N	X
Jewell County	Jewell	N	X
Junction City, City of	Geary	Y	April 5, 2016
Lebanon, City of	Smith	N	X
Linn	Washington	Y	November 18, 2015
Mankato, City of	Jewell	N	X
Milford, City of*	Geary	Y	April 5, 2016
Miltonvale, City of	Cloud	Y	July 16, 2014
Mitchell County	Mitchell	Y	June 15, 1988
Morganville, City of	Cloud	Y	July 16, 2014
Munden, City of	Republic	Y	December 17, 2010
Palmer	Washington	Y	November 18, 2015
Phillips County	Phillips	N	X
Randall, City of	Jewell	N	X
Republic, City of	Republic	Y	December 17, 2010
Republic County	Republic	Y	December 17, 2010
Riley County	Riley	Y	March 16, 2015
Scandia, City of	Republic	Y	December 17, 2010
Scottsville, City of	Mitchell	Y	June 15, 1988
Smith County	Smith	N	X
Vining, City of*	Clay	Y	May 5, 2014
Wakefield, City of	Clay	Y	May 5, 2014
Washington County	Washington	Y	November 18, 2015
Webber, City of	Jewell	N	X

Notes:

\*Communities that span more than one county in the study area.

X indicates that the county has never been mapped.

Source: FEMA 2021



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**Table 3: Lower Republican Incorporated Communities**

County	Community	Population 2010
Clay	Clay Center, City of	4,334
Clay	Green, City of	128**
Clay	Morganville, City of	192
Clay	Wakefield, City of	980
Clay	Vining, City of	45*
Cloud	Aurora, City of	60
Cloud	Clyde, City of	716
Cloud	Concordia, City of	5,395
Cloud	Jamestown, City of	286
Cloud	Miltonvale, City of	539**
Geary	Milford, City of	530*
Geary	Junction City, City of	23,353**
Jewell	Burr Oak, City of	174
Jewell	Esbon, City of	99
Jewell	Formoso, City of	93
Jewell	Jewell, City of	432
Jewell	Mankato, City of	869
Jewell	Randall, City of	65
Jewell	Webber, City of	25
Mitchell	Scottsville, City of	25
Republic	Agenda, City of	68
Republic	Belleville, City of	1,991
Republic	Courtland, City of	285
Republic	Cuba, City of	156
Republic	Munden, City of	100
Republic	Republic, City of	116
Republic	Scandia, City of	372
Riley	Fort Riley, CDP	7,761
Smith	Lebanon, City of	218**
Washington	Clifton, City of	554*
Washington	Greenleaf, City of	331
Washington	Linn, City of	410
Washington	Palmer, City of	111

Notes:

\*Communities that span more than one county in the study area.

\*\*Communities' total population (community spans outside the study area boundary).



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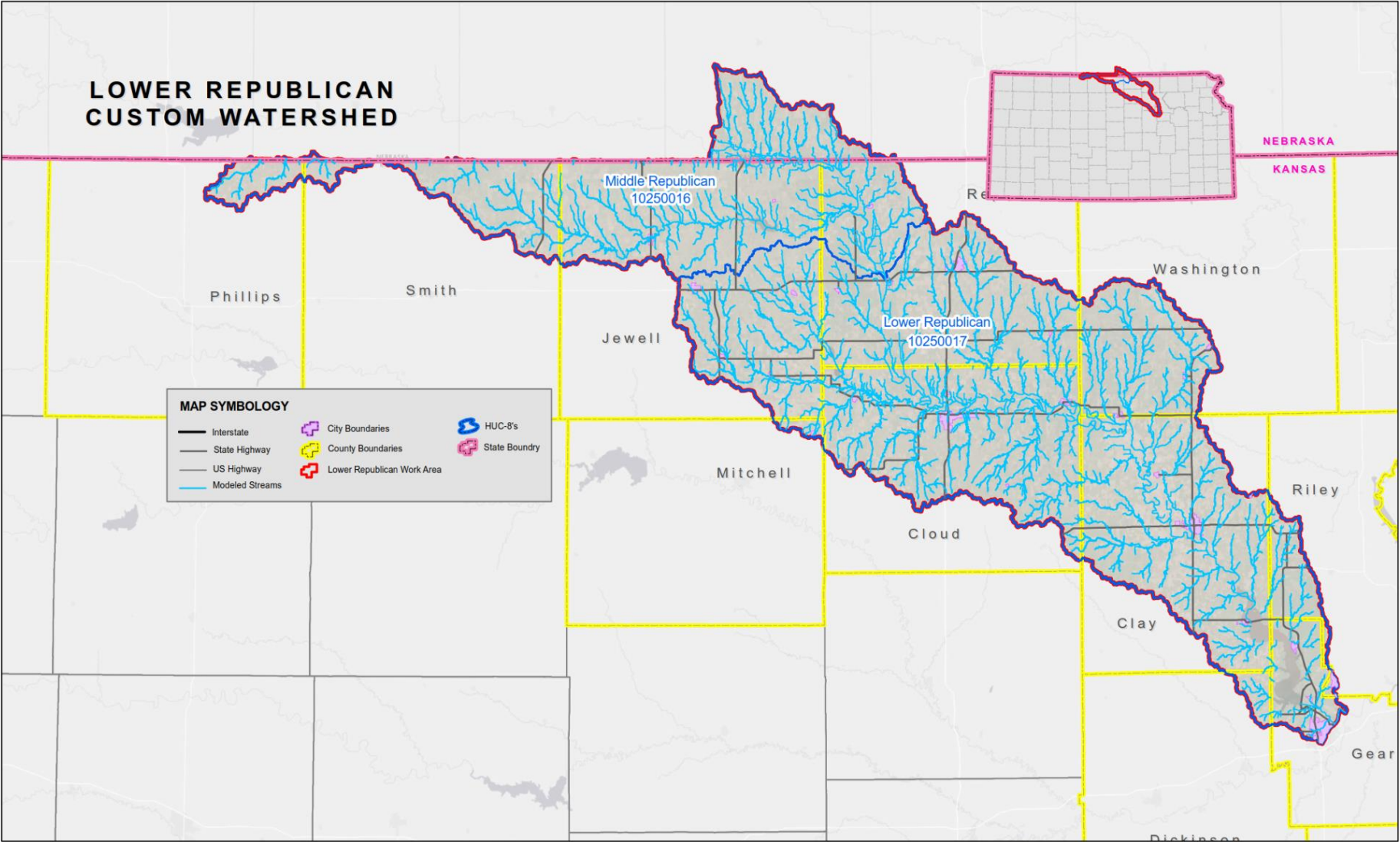


Figure 1: Streams Modeled with Base-Level Engineering in the Lower Republican Custom Watershed



### 3 WATERSHED STAKEHOLDER COORDINATION

This chapter presents an overview of the coordination that has taken place between stakeholder and community contacts, including government officials, city engineers, public works directors, and emergency coordinators.

The project team was in contact with all identified stakeholders in the study area via phone calls and e-mails before the Discovery meeting to request local participation. These stakeholders also were asked to help identify key individuals who should be included in the process, and to furnish any data to assist in risk identification and assessment. Information regarding these calls can be seen in Section one of this report.

Watershed stakeholder coordination is a vital component of the Discovery process. After local Discovery meetings were scheduled, the project team telephoned invitees to verify and update their contact information, inform them of meeting schedules, answer questions, provide an overview of the Risk MAP and Discovery process, and discuss the invitees' potential ability to provide useful data relevant to the project. When possible, meeting invitations were sent via e-mail.

The project team started the Discovery process by compiling contact information for communities and stakeholders in the watershed. The contact information was compiled from the internet using FEMA's Community Information System (CIS) website, the Kansas League of Municipalities website, and all available local community or county websites.

A survey was performed to assess flooding concerns and preparedness in the watershed. The survey was created online, using Survey Monkey, and was sent to stakeholders via e-mail on June 17, 2021. The survey questions are provided in Appendix A. There were no responses to the survey.

Meeting invites and a contact sheet from the initial watershed-wide Discovery meeting are provided in Appendix B.

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## 4 DATA COLLECTION AND ANALYSIS

This report and its maps summarize and analyze the data and information collected from online databases, partners, and communities during the stakeholder engagement phase.

### 4.1 Mapping Data

A list of the data that were collected and the sources are shown in Table 4. These data were used to develop the maps provided with this report, and to gain an overall understanding of the hazard risks in the study area.

**Table 4: Data Collection from the Lower Republican Watershed**

Data Types	Source/URL
Flood Insurance Study (FIS) and Digital Flood Insurance Rate Map (FIRM) Database	FEMA, <a href="https://msc.fema.gov/portal/advanceSearch">https://msc.fema.gov/portal/advanceSearch</a>
NFIP Policy Data	FEMA, <a href="https://www.fema.gov/media-library/assets/documents/180374">https://www.fema.gov/media-library/assets/documents/180374</a>
CRS	FEMA, <a href="https://www.fema.gov/national-flood-insurance-program-community-rating-system">https://www.fema.gov/national-flood-insurance-program-community-rating-system</a>
Population Data	U.S. Census Bureau, <a href="https://www.census.gov/">https://www.census.gov/</a>
Flood Insurance Claims	FEMA, <a href="https://www.fema.gov/policy-claim-statistics-flood-insurance">https://www.fema.gov/policy-claim-statistics-flood-insurance</a>
Letters of Map Change	FEMA, <a href="https://msc.fema.gov/portal/advanceSearch">https://msc.fema.gov/portal/advanceSearch</a>
Hazards	KDA Mitigation Officer, County/Community websites
Boundaries: Community, Transportation, County, and Watershed	Kansas Data Access & Support Center (DASC), <a href="http://www.kansasgis.org/">http://www.kansasgis.org/</a>
Levee Locations	National Levee Database, <a href="https://levees.sec.usace.army.mil/#/">https://levees.sec.usace.army.mil/#/</a>
Dams	National Inventory of Dams (NID), <a href="https://nid.sec.usace.army.mil/ords/f?p=105:1">https://nid.sec.usace.army.mil/ords/f?p=105:1</a>
Study Needs	Coordinated Needs Management Strategy (CNMS) Database, Local database
Topographic Data – Light Detection and Ranging (LiDAR) and National Agriculture Imagery Program Imagery	Kansas DASC, <a href="http://www.kansasgis.org/">http://www.kansasgis.org/</a>
Estimation of Peak Flows	United States Geological Survey (USGS), <a href="http://pubs.usgs.gov">http://pubs.usgs.gov</a>
Transportation: Highways, Roads, Railroads, Critical Utilities, Critical Infrastructure	Kansas DASC, <a href="http://www.kansasgis.org/">http://www.kansasgis.org/</a>
Storm Events Data	National Oceanic and Atmospheric Agency (NOAA), <a href="https://www.ncdc.noaa.gov/stormevents/">https://www.ncdc.noaa.gov/stormevents/</a>
Presidential Disasters	FEMA, <a href="https://www.fema.gov/disasters">https://www.fema.gov/disasters</a>



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## 4.2 Coordinated Needs Management Strategy Data

The CNMS Inventory provides a snapshot of the status and attributes of currently studied streams in FEMA’s floodplain study inventory. The stream miles shown in CNMS are accompanied by an evaluation of a validation status and type, for examination of the current or past study condition. Furthermore, CNMS aids in identifying areas to consider for study during the Discovery process by highlighting mapping needs, quantifying mileage, and providing further categorization. Table 5 shows CNMS data for the Lower Republican project area.

**Table 5: Coordinated Needs Management Strategy Categorized Stream Mileage**

Clay County	FIPS: 20027	Phillips County	FIPS: 20147
Assessed	69.7 miles	Assessed	30.4 miles
Valid	462.0 miles		
Cloud County	FIPS: 20029	Republic County	FIPS: 20157
Assessed	17.8 miles	Assessed	564.2 miles
Valid	743.9 miles	Unverified	1.7 miles
		Valid	54.4 miles
Dickinson County	FIPS: 20041	Riley County	FIPS: 20161
Assessed	0.7 miles	Assessed	34.8 miles
Unverified	22.0 miles	Valid	33.5 miles
Geary County	FIPS: 20061	Smith County	FIPS: 20183
Assessed	28.8 miles	Assessed	138.0 miles
Unverified	29.6 miles	Unverified	23.7 miles
Valid	53.0 miles		
Jewell County	FIPS: 20089	Washington County	FIPS: 20201
Assessed	666.2 miles	Assessed	9.7 miles
Unverified	40.7 miles	Valid	224.7 miles
Mitchell County	FIPS: 20123		
Unverified	11.7 miles		

## 4.3 Topographic Data

LiDAR data is collected using ultraviolet, visible, and near-infrared light to image a wide range of targets with high resolution. This data is used to create a digital elevation model (DEM). LiDAR DEMs currently are available, for the entire watershed, on the Kansas Data Access and Support Center website (2021).

The LiDAR to be used for the proposed Risk MAP scope is to be acquired from the Kansas DASC. The LiDAR for Clay, Cloud, Republic, and Washington Counties was flown in 2017. The LiDAR for Smith County was flown in 2012. The LiDAR for Dickinson, Jewell, and Mitchell Counties was flown in 2011. And finally, the LiDAR for Geary and Riley Counties was flown in 2010.

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## 4.4 Hydrologic Data

Stream gages measure the water surface elevation (stage) and/or discharge (flow) along streams. These measurements are used in the detailed analysis of streams and floodplain determinations. Peak-flow data is available from six USGS gage sites in the watershed area. The stream gages in the Lower Republican custom watershed are shown in Table 6.

**Table 6: Lower Republican Custom Watershed Gages with Peak Flow**

Source	Site Number	Site Name	Drainage Area (square miles)	Peak-Flow Data Begin Date	Peak-Flow Data End Date	Peak-Flow Data Count
USGS	06853500	REPUBLICAN R NR HARDY, NE	22,401	May 29, 1903	July 21, 2020	102
USGS	06853800	WHITE ROCK C NR BURR OAK, KS	227	July 9, 1950	July 28, 2020	64
USGS	06854000	WHITE ROCK C AT LOVEWELL, KS	345	September 8, 1946	June 26, 2002	57
USGS	006855800	BUFFALO C NR JAMESTOWN, KS	330	March 27, 1960	May 15, 1990	31
USGS	06856000	REPUBLICAN R AT CONCORDIA, KS	23, 560	May 29, 1903	July 27, 2020	83
USGS	06856600	REPUBLICAN R AT CLAY CENTER, KS	24,542	May 29, 1903	July 31, 2020	105

## 4.5 Other Data and Information

### Community Rating System

CRS is a voluntary program in the NFIP that rewards pro-active communities with discounted flood insurance premium rates. The program encourages community floodplain management beyond the NFIP minimum standards. None of the communities in the Lower Republican custom watershed participate in the CRS at the time of this report.

### Mitigation Plans and Mitigation Projects

Multi-Hazard Mitigation Plans (MHMPs) have been adopted by, or completed for, unincorporated and incorporated communities within watersheds. The MHMPs for communities in this watershed are regional MHMPs, developed in Kansas. Counties and the incorporated communities in the project area are part of the Kansas Homeland Security Region B, Kansas Homeland Security Region F, Kansas Homeland Security Region I, or Kansas Homeland Security Region K MHMPs. The counties represented in each plan and key elements of each are summarized next with some of the text updated for clarity. Important table excerpts from both hazard mitigation plans are provided in Appendix F.

- Kansas Homeland Security Region F MHMP: Clay, Cloud, Dickinson, Jewell, Mitchell, Republic, and Smith Counties
  - Clay County: “Clay Center has an SFHA in the western third of the city that follows a narrow band south along 4th Street for seven blocks. There is a designated SFHA along Dry Creek that stretches northwest from this confluence with Spring Creek to



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## LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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Dry Creek's intersection with the city limits. Huntress Park and the length of Huntress Creek are also designated Zone A. The City of Morganville has three designated SFHAs within the corporate limits of the city. On the extreme western edge, there is a SFHA comprised of a narrow band along the city limits of which the southern half appears to be residential. On the far eastern edge of the city limits there is a designated SFHA which appears to be in a city park area. The third designated area is in and adjacent to a sewage treatment lagoon area."

- Cloud County: N/A
- Dickinson County: "The City of Abilene and the unincorporated areas of the County are at most risk of flood losses. Risk to flood losses was also noted in Chapman, Enterprise, Herington, and Solomon. In Carlton, Hope, Manchester, and Woodbine there is little risk to property. It should be noted that Abilene has levee protection for [the] city."
- Jewell County: N/A
- Mitchell County: "The City of Hunter is located along Bacon Creek and includes two areas that are included in the SFHA Flood Hazard Area Zone A. The areas are located on the southwest side of the railroad tracks along Spillman Creek, and a tributary of Bacon Creek that flows through the eastern portion of the town."
- Republic County: N/A
- Smith County: "The City of Cedar reported that during periods of heavy rain they have had instances of minor road and property flooding due to the overflow of the existing drainage system. The City of Gaylord has a Zone A SFHA located in the northwestern portion of the city, in the area of Beaver Creek and the Kirwin Main Canal that includes developed areas. The City of Kensington has Zone A SFHA located in the northwestern, northeastern, and southwestern portions of the city, including some developed areas."
- Kansas Homeland Security Region B MHMP: Phillips County
  - Phillips County: "a review of the FEMA [FIRM] for the City of Logan indicates Zone A flood areas located throughout the southern and eastern portions of the city due to the presence of the Solomon River. Based on a review of the aerial map it appears there are a few isolated improvements located near the river"
- Kansas Homeland Security Region I MHMP: Geary and Riley Counties
  - Geary County: "The City of Grandview Plaza is located along the Republican and Smoky rivers and is at risk to flooding. Junction City is located along the Republican and Smoky Hill rivers and has identified flood hazard areas located on the north, northeast, and east sides of the city due to proximity to the two rivers. Many of the identified areas have little development."
  - Riley County: "The City of Manhattan areas most susceptible to flooding occur along two floodways identified with Zones A, AE, AH, and Zone X. The first floodway is located along Wildcat Creek which enters Manhattan on the west city boundary along Anderson Road and moves east-southeast until joining the Kansas River. There were no major population centers or improvements identified within the



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floodway up to the levee located along the southeast side of Manhattan that protects an area identified as Zone X. The levee protected area begins along Fair Lane at Denison Avenue, and trends north-northeast to Bertrand Street and Highway 24. Notable population areas were identified within this protected area. The second floodway is along the City of Manhattan and the Kansas River boundary to the south and east. Large areas of floodplain appear to be within sparsely populated agricultural areas of the county as the river trends away from Manhattan to the east. The City of Ogden has one SFHA that includes some outlying city-owned property areas. In addition, the Dry Branch Creek flood area is located along the east side of the and includes some populated residential areas of the City of Riley identified two Zone AE flood hazard areas. Wildcat Creek is located along the west side of the city and touches a very small area of the city limits and includes a small portion of improved properties. Wildcat Creek Tributary enters the city from the north and runs south through the city where it joins Wildcat Creek outside the city limits. This narrow floodway does appear to include a small number of residential properties.”

- Kansas Homeland Security Region K MHMP: Washington County
  - Washington County: N/A

The purpose of each MHMP is twofold. First, plans ensure that each participating community is eligible to obtain federal funding under the Hazard Mitigation Grant Program, the Pre-Disaster Mitigation Program, and the Flood Mitigating Assistance Program. In addition, MHMPs enable communities to determine the hazards affecting their areas, determine the risks that these hazards present, develop mitigation goals, and identify mitigation actions for the participating entities. MHMPs include mitigation strategies intended to promote flood resilience among participating communities. The project team reviewed the mitigation strategies listed in the relevant MHMPs, to determine which mitigation strategies, if any, were relevant for the Discovery process. Appendix E summarizes the flood-related mitigation actions in the plans and from the Discovery meeting.

### **Repetitive Loss**

A repetitive loss property is any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP in any rolling 10-year period. When clusters of repetitive loss properties occur in a community, it may indicate an area of mitigation interest. FEMA provides a national dataset of claims information that is accurate within 6 miles, to keep personal information private. An evaluation of repetitive loss properties was performed for the Lower Republican watershed. Figure 2 shows clusters where repetitive loss properties exist. The circle polygons on the map do not indicate a specific property but a general area.



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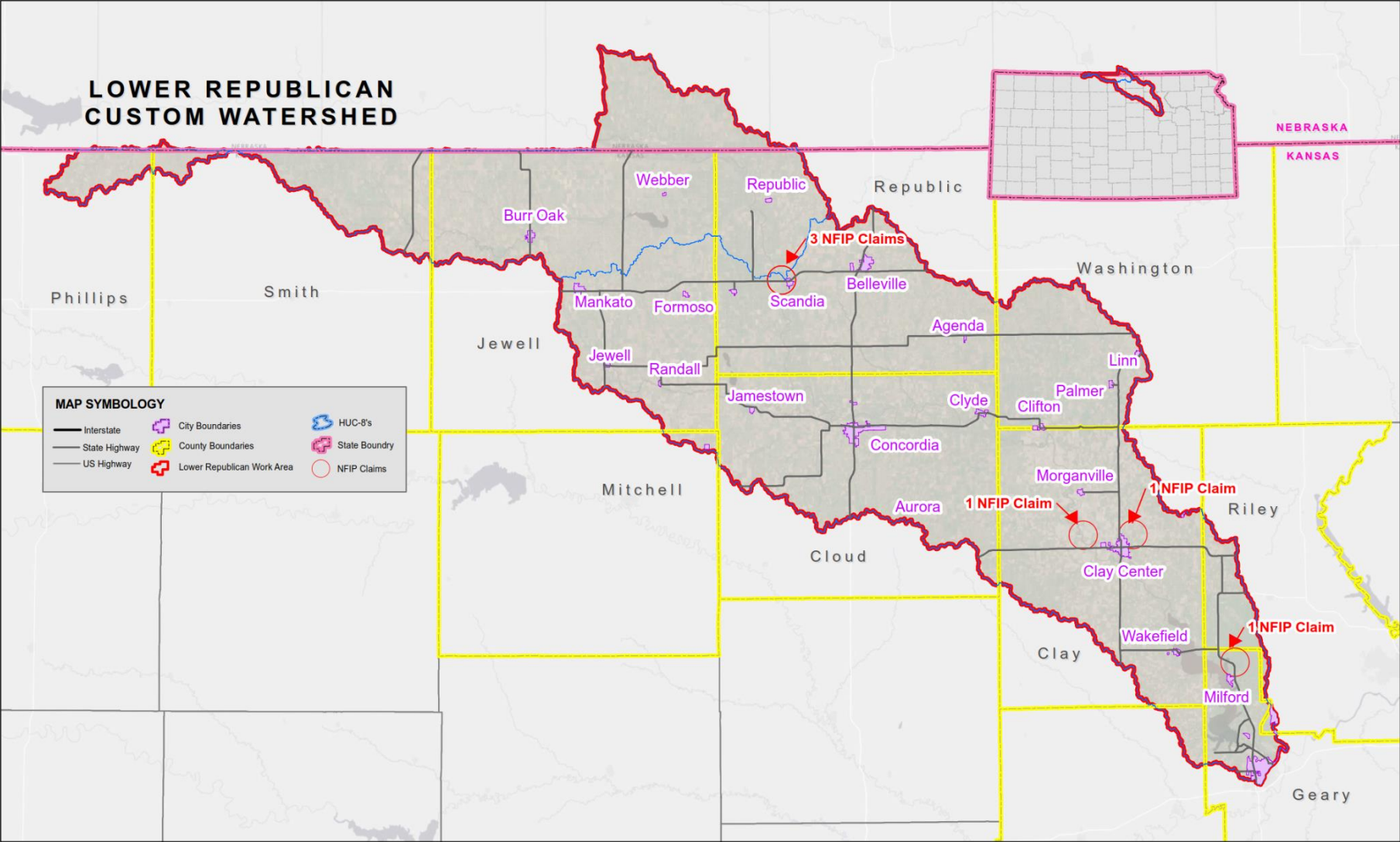


Figure 2: Repetitive Loss Clusters

# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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## 5 DISCOVERY MEETING

Two Discovery meetings were held in the Lower Republican custom watershed, as shown in Table 7.

**Table 7: Lower Republican Discovery Meetings (TBD)**

Location	Time, Date	Address

A PowerPoint presentation was created for the meetings. This presentation provided an overview of the Discovery process and included specific information about the watershed. Discovery maps were also created for the meeting. These maps displayed the initially proposed stream study scope, for notes and markups. Tables were set up for different areas in the watershed, showing risk and other associated FEMA data. Meeting facilitators discussed flooding issues, study needs, and mitigation needs. Their findings were recorded on Mitigation Action Identification Sheets. The meeting materials are provided in Appendix D.



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### 6 RISK MAPPING, ASSESSMENT, AND PLANNING PROJECT PROPOSED SCOPE

This section to be updated after the Discovery meeting.

#### 6.1 Preliminary Scope of Work

The Lower Republican custom watershed is scheduled for a Risk MAP project. Funding is expected to start for the project in Fiscal Year 2022, with the completion date to be determined. When finalized, the studies will be shown graphically in the Discovery Map. Descriptions of the flood risk products that will be distributed are outlined in the next section.

During the Base Level Engineering Community Kickoff meeting, held in June 2021, the City of Concordia in Cloud County noted a need for a technical assistance project. KDA is a CTP with FEMA and can therefore request technical assistance funds from FEMA to support community planning efforts to mitigate flood risk in Kansas communities. The city requested a review of new data to determine accurate floodplain boundaries since new dams were constructed in the city. A task order was made effective in October 2021 by KDA to develop a storm water management that accounts for the dam and storm sewer capacity and the draft flood hazard mapping outputs. This work is scheduled to be completed in January 2022.

#### 6.2 Flood Risk Products

##### Flood Depth Grids

Flood depth grids are rasters that show the depth of the water in a given area. Depth is calculated as the difference in feet between the water surface elevation and the ground elevation. Depth grids will be available for 10-, 4-, 2-, 1-, 1-plus- and 0.2-percent-annual-chance flooding events. They will be delivered in the flood risk database.

##### Water Surface Elevation Grids

Water surface elevation grids are rasters that show the elevation of each modeled flood event. Elevations will be extracted from the new studies' models. These grids will be available for 10-, 4-, 2-, 1-, 1-plus, and 0.2-percent-annual-chance flooding events. They will be delivered in the flood risk database.

##### Changes Since the Last FIRM

The Changes Since Last FIRM (CSLF) are features that show polygon areas of mapped flood zone changes. This deliverable is produced for all new study areas that previously had a DFIRM. This product will show how and where the floodplain changed from the effective DFIRM to the new study. They will be delivered in the Flood Risk Database (FRD).

##### Regulatory Products

The Lower Republican watershed project is scheduled to be funded in an additional funding year by FEMA to incorporate the newly developed studies into the regulatory mapping. Funding is expected to be available for Fiscal Year 2022. The purpose of this additional funding will be to create and deliver regulatory products for Republic County. At this point, the

## LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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project will begin to be more county- and community-specific, to create the regulatory products, rather than watershed-wide. The regulatory products creation and delivery is shown in Table 8.

**Table 8: Regulatory Products Creation and Delivery**

Regulatory Products Creation and Delivery
<b>Republic County</b>
Preliminary map products will be created on a county-wide basis. These products will include FIRMs, a FIRM Database, and an FIS Report. They are expected to be funded as part of the Lower Republican watershed project because most of the county is within that watershed. The process will end with new effective regulatory products for the county and incorporated communities.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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## 7 REFERENCES

- FEMA, 2012a (October). *Risk Mapping, Assessment and Planning (Risk MAP)* Available: <https://www.fema.gov/flood-maps/tools-resources/risk-map>
- FEMA, 2019 (November). *Guidance for Flood Risk Analysis and Mapping: Discovery*. Available: [https://www.fema.gov/sites/default/files/2020-02/Discovery\\_Guidance\\_Nov\\_2019.pdf](https://www.fema.gov/sites/default/files/2020-02/Discovery_Guidance_Nov_2019.pdf)
- FEMA, 2021. Community Status Book Report: KANSAS, Communities Participating in the National Flood Program. Available: <https://www.fema.gov/cis/KS.pdf>.
- Kansas GIS DASC, 2020. DASC (Geospatial) Data Website. Available: <http://www.kansasgis.org/index.cfm>.
- KDA. 2008. *Kansas Water Plan*. Available: [https://kwo.ks.gov/docs/default-source/water-vision-water-plan/water-plan/archived-water-plans/atlas\\_kansas\\_lower\\_republican\\_basin.pdf?sfvrsn=98708714\\_2](https://kwo.ks.gov/docs/default-source/water-vision-water-plan/water-plan/archived-water-plans/atlas_kansas_lower_republican_basin.pdf?sfvrsn=98708714_2)
- KDA, 2017 (January). *Fact Sheet: Republican River Compact*. Available: [https://agriculture.ks.gov/docs/default-source/iwi---republican-river-compact/rrca\\_fact\\_sheet.pdf?sfvrsn=4](https://agriculture.ks.gov/docs/default-source/iwi---republican-river-compact/rrca_fact_sheet.pdf?sfvrsn=4)



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# Appendix A

## Pre-Discovery Meeting Survey



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## Lower Republican Custom Watershed

### Discovery Survey

\* 1. Contact Information (Name, Organization, Phone, Email)

2. Has your community experienced any of the following due to flooding:

- ☐ Blocked Culverts
- ☐ Damage to Bridges
- ☐ Low-water crossing damaged
- ☐ Road closures
- ☐ Levee or Dam over-topping or failure
- ☐ Damage to residential structures
- ☐ Damage to commercial structures
- ☐ Damage to Critical Facilities (fire stations, water plants, etc.)

0 of 10 answered

3. Is your community concerned about the following due to risk of future flooding:

- ☐ Blocked Culverts
- ☐ Damage to Bridges
- ☐ Low-water crossing damaged
- ☐ Road closures
- ☐ Levee or Dam over-topping or failure
- ☐ Damage to residential structures
- ☐ Damage to commercial structures
- ☐ Damage to Critical Facilities (fire stations, water plants, etc.)
- ☐ Other (please specify)

4. Have flooding impact or concerns prompted any pro-active action by your community?

- ☐ Flood Risk Planning
- ☐ Improved Stormwater Management Practices
- ☐ Higher Regulatory Requirements
- ☐ Other

0 of 10 answered



☐ Mitigation Projects

☐ Grant Applications

☐ Other/Comment

5. Is your community interested in:

☐ Joining the National Flood Insurance Program (NFIP)

☐ Community Rating System (CRS) to reduce flood insurance rates?

☐ Higher regulatory standards to protect future development

☐ High water / Flood Zone warning signs

☐ Flood control projects

☐ Training on floodplain management

☐ Training on flood mapping creation

☐ Training on GIS software for using flood risk data

☐ Other/Comment

6. Please indicate the type of plans your community has:

0 of 10 answered

- ☐ Stormwater Master Plan
- ☐ Capital Improvement Plan
- ☐ Emergency Response Plan
- ☐ Hazard Mitigation Plan
- ☐ Other (please specify)

7. Does your community currently use any of the following tools for communicating with citizens?

- ☐ Local Fair/Festival
- ☐ Public Service Announcements
- ☐ Television
- ☐ Radio
- ☐ Social Media Pages
- ☐ Mailings/Utility Bill Inserts
- ☐ Newsletter
- ☐ Website
- ☐ Email List
- ☐ Text / SMS messaging
- ☐ Other (please specify)

0 of 10 answered

8. Does your community conduct any outreach or education for residents/property owners regarding local flood risk?

☐ I don't know

☐ No

☐ Yes

9. How prepared do you feel your community is for a flooding disaster?

☐ Not at all

☐ Minimally prepared

☐ Somewhat prepared

☐ As much as possible

10. Considering the questions asked in this survey, are there any technical resources, risk identification, outreach and communication, or planning assistance FEMA or KDA can provide? Please explain.

☐ Yes

☐ No

If yes, please explain

0 of 10 answered

DONE

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## Appendix B

### Contact List



**FEMA**



Notes - Confirmed (Y/N) or Added	Watershed	County	Community Name	Organization	Title	Role Identifier (CEO, FPA, Clerk or Other)	First Name	Last Name	Email	Area code (no parentheses)	Phone (no dashes)	Street Address	City	Zip	Notes	Call Notes (Called on, talked to, left Voicemail on)	AECOM Representative
Y	Lower Republican	CLAY	CLAY COUNTY	Clay County Emergency	Emergency Management Coordinator	EM	Pam	Kemp	<a href="mailto:pkemp.ems@claycountykansas.org">pkemp.ems@claycountykansas.org</a>	785	6325802	703 Second St	Clay Center	67432		Called on 9/2/2021 - No voicemail.	MKB
Y	Lower Republican	CLAY	CLAY COUNTY	Clay County	County Clerk	Clerk	Kayla	Wang	<a href="mailto:cyclerk@claycountykansas.org">cyclerk@claycountykansas.org</a>	785	6322552	712 5th Street, Suite 102	Clay Center	67432		Called on 9/2/2021 - Spoke with Bailey. She asked that I email Pam Kemp and gave me her updated email address. Follow up email sent to <a href="mailto:pkemp.ems@claycountykansas.org">pkemp.ems@claycountykansas.org</a> on 9/2/2021.	MKB
Y	Lower Republican	CLAY	CLAY COUNTY	Clay County	District 3 Commissioner	CEO	David	Thurlow	<a href="mailto:cyclerk@claycountykansas.org">cyclerk@claycountykansas.org</a>	785	6322552	712 5th Street, Suite 102	Clay Center	67432	Duplicate Email		
Added - Website has multiple commissioners. Dist. 1 and 2 both cover communities in LR																	
	Lower Republican	CLAY	CLAY COUNTY	Clay County	District 2 Commisioner	CEO	Eric	Carlson	<a href="mailto:cyclerk@claycountykansas.org">cyclerk@claycountykansas.org</a>	785	6322550	712 5th Street, Suite 102	Clay Center	67432			
Y	Lower Republican	CLAY	CLAY COUNTY	Clay County	Appraiser & Zoning		Danny	Masalles	<a href="mailto:ccappraiser@claycountykansas.org">ccappraiser@claycountykansas.org</a>	785	6325264	712 5th Street, Suite B1	Clay Center	67432	*highway road person just retired; no current replacement		
Y	Lower Republican	CLAY	Morganville	City of Morganville	City Clerk	Clerk	Pam	Knitter	<a href="mailto:cityofmorg@yahoo.com">cityofmorg@yahoo.com</a> or <a href="mailto:5knitterspk@twinvalley.net">5knitterspk@twinvalley.net</a>	785	2304485	PO Box 82	Morganville	67468			
Y (see note)	Lower Republican	CLAY	Morganville	City of Morganville	Mayor	CEO	Brent	Rundell	<a href="mailto:cityofmorg@yahoo.com">cityofmorg@yahoo.com</a> or <a href="mailto:5knitterspk@twinvalley.net">5knitterspk@twinvalley.net</a>	785	9264941	PO Box 82	Morganville	67468	Duplicate Email		
Y	Lower Republican	CLAY	Morganville	City of Morganville	Water		Wayne	Rowh	<a href="mailto:cityofmorg@yahoo.com">cityofmorg@yahoo.com</a> or <a href="mailto:5knitterspk@twinvalley.net">5knitterspk@twinvalley.net</a>	785	6327063	PO Box 82	Morganville	67468	Duplicate Email	Called on 9/2/2021 - Spoke with Wayne Rowh. He confirmed his email and asked to be sent more information. I sent him a follow-up email on 9/2/2021	MKB
N	Lower Republican	CLAY	Morganville	City of Morganville	City Manager		Jeff	Keeler	<a href="mailto:cityofmorg@yahoo.com">cityofmorg@yahoo.com</a> or <a href="mailto:5knitterspk@twinvalley.net">5knitterspk@twinvalley.net</a>	785	4479254	PO Box 82	Morganville	67468	Duplicate Email		
Y	Lower Republican	CLAY	Wakefield	City of Wakefield	City Clerk	Clerk	Julie	Murphy	<a href="mailto:cityofwakefield@twinvalley.net">cityofwakefield@twinvalley.net</a>	785	4615886	609 Grove Street, PO Box 32	Wakefield	67487			
Y (see note)	Lower Republican	CLAY	Wakefield	City of Wakefield	Mayor	CEO	Chris	Dumler	<a href="mailto:chrisdumler.citycouncil@gmail.com">chrisdumler.citycouncil@gmail.com</a>	785	3072451	609 Grove Street, PO Box 32	Wakefield	67487			
Y	Lower Republican	CLAY	Wakefield	City of Wakefield	City Superintendent		Jeff	Ochs	<a href="mailto:wakefieldsuper@twinvalley.net">wakefieldsuper@twinvalley.net</a>	785	3072886	609 Grove Street, PO Box 32	Wakefield	67487		Called on 9/2/2021. Talked with Jeff Ochs. He provided feedback and and updated email address. I sent a follow-up email on 9/2/2021.	MKB
Y	Lower Republican	CLAY	Wakefield	City of Wakefield	Planning/Zoning, Chairman		Cynthia	Obermeyer	<a href="mailto:cjomk123@gmail.com">cjomk123@gmail.com</a>	405	4123280	609 Grove Street, PO Box 32	Wakefield	67487			
Y	Lower Republican	CLAY	Clay Center	City of Clay Center	City Clerk	Clerk	Kerry	Rozman	<a href="mailto:cityclerk@claycenterks.com">cityclerk@claycenterks.com</a>	785	6325454	427 Court Street, PO Box 11	Clay Center	67432			
Y	Lower Republican	CLAY	Clay Center	City of Clay Center	Mayor	CEO	James	Thatcher	<a href="mailto:citymayor@claycenterks.com">citymayor@claycenterks.com</a>	785	6325454	427 Court Street, PO Box 11	Clay Center	67432			
N - see comment	Lower Republican	CLAY	Clay Center	Clay Center Public Utiliti	Public Utilities Superintendent		Scott	Glaves	<a href="mailto:sglaves@ccpuc.net">sglaves@ccpuc.net</a>	785	6322137	427 Court Street	Clay Center	67432			
Y	Lower Republican	CLAY	Clay Center	City of Clay Center	Sewer and Water		Kent	Hessling	<a href="mailto:citywastewater@claycenterks.com">citywastewater@claycenterks.com</a>	785	6325775	427 Court Street, PO Box 11	Clay Center	67432		Called on 9/3/2021. Kent is out sick - confirmed email address and sent follow up on 9/3/2021	MKB
Y	Lower Republican	CLAY	Clay Center	City of Clay Center	Public Services Committee Chairman		Daton	Hess	<a href="mailto:daton_59@yahoo.com">daton_59@yahoo.com</a>	785	6325454	427 Court Street, PO Box 11	Clay Center	67432			
Y	Lower Republican	CLOUD	CLOUD COUNTY	Cloud County Emergenc	Emergency Management Director	EM	James	Quillen	<a href="mailto:jquillen@cloudcountyks.org">jquillen@cloudcountyks.org</a>	785	2438131	811 Washington St	Concordia	66901		Called on 9/3/2021. Left a Voicemail and sent a follow-up email on 9/3/2021	MKB
Y	Lower Republican	CLOUD	CLOUD COUNTY	Cloud County	County Clerk	Clerk	Shella	Thoman	<a href="mailto:clerk@cloudcountyks.org">clerk@cloudcountyks.org</a>	785	2438110	811 Washington St	Concordia	66901			
Y (see note)	Lower Republican	CLOUD	CLOUD COUNTY	Cloud County	Commissioner, Chairman	CEO	Gary	Caspers	<a href="mailto:gcaspers@cloudcountyks.org">gcaspers@cloudcountyks.org</a>	785	2436423	811 Washington St	Concordia	66901			
Y	Lower Republican	CLOUD	CLOUD COUNTY	Cloud County	Appraiser		Barry	Porter	<a href="mailto:appraiser@cloudcountyks.org">appraiser@cloudcountyks.org</a>	785	2438100	811 Washington St	Concordia	66901			
Y	Lower Republican	CLOUD	CLOUD COUNTY	Cloud County	Highway Administrator		Andy	Asch	<a href="mailto:hwydept@cloudcountyks.org">hwydept@cloudcountyks.org</a>	785	2434761	811 Washington St	Concordia	66901			
Y	Lower Republican	CLOUD	Concordia	City of Concordia	City Clerk	Clerk	Stacey	Smith	<a href="mailto:cityclerk@concordiaks.org">cityclerk@concordiaks.org</a>	785	2432670	701 Washington Street, PO Box 603	Concordia	66901			
Y	Lower Republican	CLOUD	Concordia	City of Concordia	Mayor	CEO	Marsha	Wentz	<a href="mailto:cityclerk@concordiaks.org">cityclerk@concordiaks.org</a>	785	2432670	701 Washington Street, PO Box 603	Concordia	66901	Duplicate Email		
Y	Lower Republican	CLOUD	Concordia	City of Concordia	Public Works Director		Ron	Copple	<a href="mailto:street@concordiaks.org">street@concordiaks.org</a>	785	2432670	701 Washington Street, PO Box 603	Concordia	66901		Called on 9/3/2021. Left a Voicemail and sent a follow-up email on 9/3/2021	MKB
Y	Lower Republican	CLOUD	Concordia	City of Concordia	Building and Zoning		Bruno	Rehbein	<a href="mailto:bruno.rehbein@concordiaks.org">bruno.rehbein@concordiaks.org</a>	785	2432670	701 Washington Street, PO Box 603	Concordia	66901			
Y	Lower Republican	CLOUD	Concordia	City of Concordia	City Manager		Amy	Lange	<a href="mailto:citymanager@concordiaks.org">citymanager@concordiaks.org</a>	785	2432670	701 Washington Street, PO Box 603	Concordia	66901			
Y	Lower Republican	CLOUD	Jamestown	City of Jamestown	City Clerk	Clerk	Jessica	Pressler	<a href="mailto:jamestown@nckn.com">jamestown@nckn.com</a>	785	4396621	300 Walnut Street, PO Box	Jamestown	66948	*No code listed on FPA list from KS CTP		
Y	Lower Republican	CLOUD	Jamestown	City of Jamestown	Mayor	CEO	Randy	Smith	<a href="mailto:randysmith@hotmail.com">randysmith@hotmail.com</a>	785	2752667	300 Walnut Street, PO Box	Jamestown	66948	*No code listed on FPA list from KS CTP		
Y	Lower Republican	CLOUD	Jamestown	City of Jamestown	President of Council		Royce	Bruntzel	<a href="mailto:rbruntzel@yahoo.com">rbruntzel@yahoo.com</a>	785	2430476	300 Walnut Street, PO Box	Jamestown	66948	*No code listed on FPA list from KS CTP		
Y	Lower Republican	CLOUD	Jamestown	City of Jamestown	Public Works Superintendent		Jacob	Thoman	<a href="mailto:jacobthoman87@gmail.com">jacobthoman87@gmail.com</a>	785	6144806	300 Walnut Street, PO Box 274	Jamestown	66948	*No code listed on FPA list from KS CTP	Called on 9/3/2021. Spoke with Jacob Thoman. He should be our first contact for Jamestown. Sent a follow-up email on 9/3/2021.	MKB
Y	Lower Republican	CLOUD	Jamestown	City of Jamestown	Water (Superintendent Assistant)		Matthew	Gilbert	<a href="mailto:jamestown@nckn.com">jamestown@nckn.com</a>	785	2751736	300 Walnut Street, PO Box	Jamestown	66948	Duplicate Email	Called on 9/3/2021. No answer and no voicemail.	MKB
Y	Lower Republican	CLOUD	Aurora	City of Aurora	City Clerk	Clerk	Monica	Wurtz	<a href="mailto:aurora.kansas@gmail.com">aurora.kansas@gmail.com</a>	785	4643981	231 Main Street, PO Box 99	Aurora	67417	Prefers to be contacted by phone.		
Y	Lower Republican	CLOUD	Aurora	City of Aurora	Mayor	CEO	Kathy	Kindel	<a href="mailto:aurora.kansas@gmail.com">aurora.kansas@gmail.com</a>	785	4643493	231 Main Street, PO Box 99	Aurora	67417	Duplicate Email		
Y	Lower Republican	CLOUD	Aurora	City of Aurora	Water		Robert	Letourneau	<a href="mailto:aurora.kansas@gmail.com">aurora.kansas@gmail.com</a>	785	4643493	231 Main Street, PO Box 99	Aurora	67417	Duplicate Email	Called on 9/3/2021. Left a Voicemail for Robert Letourneau and sent a follow-up email to the Aurora city email on 9/3/2021. Update: Phone number is residential.	MKB
Y	Lower Republican	CLOUD	Aurora	City of Aurora	Sewer		Gerald	Bray	<a href="mailto:aurora.kansas@gmail.com">aurora.kansas@gmail.com</a>	785	2751900	231 Main Street, PO Box 99	Aurora	67417	Duplicate Email		
Y	Lower Republican	CLOUD	Clyde	City of Clyde	City Clerk	Clerk	Gayla	Rogers	<a href="mailto:clydeks@nckn.com">clydeks@nckn.com</a>	785	4463300	412 Washington St	Clyde	66938			
Y	Lower Republican	CLOUD	Clyde	City of Clyde	Mayor	CEO	Wendy	Genereux		785	4462211	412 Washington St	Clyde	66938			
Y	Lower Republican	CLOUD	Clyde	City of Clyde	Water		Kevin	Bergstrom	<a href="mailto:cityofclyde@nckn.com">cityofclyde@nckn.com</a>	785	4463522	412 Washington St	Clyde	66938		Called on 9/3/2021. Left a Voicemail. Voicemail indicated number was for the City of Clyde - not a specific person. I sent a follow-up email to clydeks@nckn.com since that is the contact email the city has on their website.	MKB
Y	Lower Republican	CLOUD	Clyde	City of Clyde	Public Works		Dan	LeDuc	<a href="mailto:cityofclyde@nckn.com">cityofclyde@nckn.com</a>	785	4463522	412 Washington St	Clyde	66938			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County Emergenc	Emergency Management Director	EM	Garry	Berges	<a href="mailto:garry.berges@gearycounty.org">garry.berges@gearycounty.org</a>	785	2381290	236 East 8th	Junction City	66441			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County	County Clerk	Clerk	Rebecca	Nordyke	<a href="mailto:rebecca.nordyke@gearycounty.org">rebecca.nordyke@gearycounty.org</a>	785	2383912	200 E 8th St	Junction City	66441			
N - See Comment	Lower Republican	GEARY	GEARY COUNTY	Geary County	Commissioner, Chairman	CEO	Charles	Steimatze	<a href="mailto:charles.steimatze@gearycounty.org">charles.steimatze@gearycounty.org</a>	785	7702535	200 E 8th St	Junction City	66441			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County	GIS/Planning & Zoning Director		Troy	Livingston	<a href="mailto:troy.livingston@gearycounty.org">troy.livingston@gearycounty.org</a>	785	5305399	200 E 8th St	Junction City	66441			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County	Appraiser		Travis	Lilly	<a href="mailto:appraisalrequest@gearycounty.org">appraisalrequest@gearycounty.org</a>	785	2384407	200 E 8th Street, Room 113	Junction City	66441			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County	Roads & Bridges Supervisor		Dale	Evans	<a href="mailto:dale.evans@gearycounty.org">dale.evans@gearycounty.org</a>	785	2383612	310 E 8th St	Junction City	66441			
Y	Lower Republican	GEARY	GEARY COUNTY	Geary County	Public Works Director		Corwyn	Trumpf	<a href="mailto:corwyn.trumpp@gearycounty.org">corwyn.trumpp@gearycounty.org</a>	785	2383612	310 E 8th St	Junction City	66441		Called on 9/3/2021. Out until 9/8/2021. Confirmed email and sent a follow-up email on 9/3/2021.	MKB



Y	Lower Republican	GEARY	Milford	City of Milford	City Clerk & Superintendent	Clerk	Tim	Himelick	<a href="mailto:cmilford@twinvalley.net">cmilford@twinvalley.net</a>	785	3071047	201 12th Street, PO Box	Milford	66514			
Y	Lower Republican	GEARY	Milford	City of Milford	Mayor	CEO	Brad	Roether	<a href="mailto:bradroether@yahoo.com">bradroether@yahoo.com</a>	785	2231332	201 12th Street, PO Box 279	Milford	66514		Called on 9/3/2021. Left a Voicemail and sent a follow-up email on 9/3/2021.	MKB
Y	Lower Republican	GEARY	Junction City	City of Junction City	City Clerk	Clerk	Tammy	Melton	<a href="mailto:Tammy.Melton@jcks.com">Tammy.Melton@jcks.com</a>	785	2383103	700 N. Jefferson Street, PO Box 287	Junction City	66441			
Y - See Comment	Lower Republican	GEARY	Junction City	City of Junction City	Mayor	CEO	Jeff	Underhill	<a href="mailto:jeff.underhill@jcks.com">jeff.underhill@jcks.com</a>	785	2383103	700 N. Jefferson Street, PO Box 287	Junction City	66441			
Y	Lower Republican	GEARY	Junction City	City of Junction City	City Manager		Allen	Dinkel	<a href="mailto:allen.dinkel@jcks.com">allen.dinkel@jcks.com</a>	785	2383103, ext 300	700 N. Jefferson	Junction City	66441			
Y	Lower Republican	GEARY	Junction City	City of Junction City	Public Works		Ray	Ibarra	<a href="mailto:ray.ibarra@jcks.com">ray.ibarra@jcks.com</a>	785	2387142	700 N. Jefferson	Junction City	66441		Called on 9/3/2021. Spoke with Jeanine in the Public Works office. She said Ray Ibarra was available however I was sent to voicemail when I was transferred. I left a a voicemail and sent a follow-up email on 9/3/2021.	MKB
Y	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County Emergenc	Emergency Management Coordinator	EM	Kevin	Peroutek	<a href="mailto:icem@mankatoks.net">icem@mankatoks.net</a>	785	3784002	307 North Commercial Street	Mankato	66956		Called on 9/3/2021. No answer and no voicemail. Sent a follow-up email on 9/3/2021.	MKB
Y	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	County Clerk	Clerk	Carla	Waugh	<a href="mailto:jwcoclk@nckcn.com">jwcoclk@nckcn.com</a>	785	3784020	307 North Commercial	Mankato	66956			
Y	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	Commissioner		Steve	Greene	<a href="mailto:ssgreene@nckcn.com">ssgreene@nckcn.com</a>	785	5458518	307 North Commercial	Mankato	66956			
Y - See Comment	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	Commissioner		Brent	Beck		785	3784040	307 North Commercial Street	Mankato	66956			
Y	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	Commissioner, Chairman	CEO	Keith	Roe	<a href="mailto:kbroe1@hotmail.com">kbroe1@hotmail.com</a>		5455100	307 North Commercial	Mankato	66956			
N - need to confirm person	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	Roads & Bridges		Joel	Elkins	<a href="mailto:jewellcohd@nckcn.com">jewellcohd@nckcn.com</a>	785	3784050	307 North Commercial Street	Mankato	66956			
Y	Lower Republican	JEWELL	JEWELL COUNTY	Jewell County	Appraiser		Anna	Porter	<a href="mailto:annakennedy64@gmail.com">annakennedy64@gmail.com</a>	785	3784000	307 North Commercial	Mankato	66956			
Y	Lower Republican	JEWELL	Jewell	City of Jewell	City Clerk	Clerk	Kristie	Anderson	<a href="mailto:jewellcity@nckcn.com">jewellcity@nckcn.com</a>	785	4283600	308 Delaware Street, PO Box 385	Jewell	66949			
Y	Lower Republican	JEWELL	Jewell	City of Jewell	Mayor	CEO	Darrell	Bohnert	<a href="mailto:jewellmayor@nckcn.com">jewellmayor@nckcn.com</a>	785	4283600	308 Delaware Street, PO Box 385	Jewell	66949			
Y	Lower Republican	JEWELL	Jewell	City of Jewell	City Maintenance		David	Knappert	<a href="mailto:dsteel2@live.com">dsteel2@live.com</a>	785	5342787	308 Delaware Street, PO Box 385	Jewell	66949		Called on 10/15/21 - left voicemail with David Knappert. Follow up email sent 10/15/2021.	MKB
Y	Lower Republican	JEWELL	Randall	City of Randall	City Clerk	Clerk	Sarah	Thiede	<a href="mailto:cityofrandall@yahoo.com">cityofrandall@yahoo.com</a>	785	5349712	PO Box 154	Randall	66963			
Y	Lower Republican	JEWELL	Randall	City of Randall	Mayor	CEO	Wayne	McElroy	<a href="mailto:cityofrandall@yahoo.com">cityofrandall@yahoo.com</a>	785	5342655	PO Box 154	Randall	66963	Duplicate Email		
N	Lower Republican	JEWELL	Randall	City of Randall	City Superintendent		Frank	Bolte	<a href="mailto:cityofrandall@yahoo.com">cityofrandall@yahoo.com</a>	785	5343233	PO Box 154	Randall	66963	Duplicate Email		
Y	Lower Republican	JEWELL	Randall	City of Randall	Water		Matthew	Gilbert	<a href="mailto:cityofrandall@yahoo.com">cityofrandall@yahoo.com</a>	785	2751736	PO Box 154	Randall	66963	Duplicate Email	Spoke with Mr. Gilbert and sent a follow up email to cityofrandall@yahoo.com (email confirmed)	MKB
Y- See Comment	Lower Republican	JEWELL	Burr Oak	City of Burr Oak	City Clerk	Clerk	Amy	Reed	<a href="mailto:burroakks@gmail.com">burroakks@gmail.com</a>	785	6475351	PO Box 22	Burr Oak	66936			
Y	Lower Republican	JEWELL	Burr Oak	City of Burr Oak	Mayor	CEO	Mike	Harris	<a href="mailto:mharris@ruraltel.net">mharris@ruraltel.net</a>	785	5455659	PO Box 22	Burr Oak	66936		Spoke with Mike Harris - sent follow up email	MKB
N	Lower Republican	JEWELL	Burr Oak	City of Burr Oak	City Superintendent		Kurt	Warrelmann	<a href="mailto:burroakks@gmail.com">burroakks@gmail.com</a>	785	6472054	PO Box 22	Burr Oak	66936	Duplicate Email		
N - Address for Formoso City Hall updated for all entries	Lower Republican	JEWELL	Formoso	City of Formoso	City Clerk	Clerk	Beth	Wilkes	<a href="mailto:jwfarm@yahoo.com">jwfarm@yahoo.com</a>	785	7942424	108 Main, PO Box 156	Formoso	66942			
N	Lower Republican	JEWELL	Formoso	City of Formoso	Admin		Audra	Kasl	<a href="mailto:audrajunek@hotmail.com">audrajunek@hotmail.com</a>	785	5271035	108 Main, PO Box 156	Formoso	66942			
Y	Lower Republican	JEWELL	Formoso	City of Formoso	Mayor	CEO	LaVernia	Peters	<a href="mailto:lavernia@nckcn.com">lavernia@nckcn.com</a>	785	7942271	108 Main, PO Box 156	Formoso	66942			
Y	Lower Republican	JEWELL	Formoso	City of Formoso	Water & Sewer		Robert	Roush	<a href="mailto:broush@usd107.org">broush@usd107.org</a>	785	5560195	108 Main, PO Box 156	Formoso	66942		Spoke with Bob Roush and sent a follow up email	MKB
Y	Lower Republican	JEWELL	Mankato	City of Mankato	City Clerk	Clerk	Barry	Parsons	<a href="mailto:scobb123@nckcn.com">scobb123@nckcn.com</a>	785	3783141	217 S High St	Mankato	66956			
Y	Lower Republican	JEWELL	Mankato	City of Mankato	Mayor	CEO	Justin	Schoonover	<a href="mailto:mankato@nckcn.com">mankato@nckcn.com</a>	785	3783141	217 S High St	Mankato	66956			
Y	Lower Republican	JEWELL	Mankato	City of Mankato	Water Superintendent		Matthew	Badger	<a href="mailto:mankato@nckcn.com">mankato@nckcn.com</a>	785	3787060	217 S High St	Mankato	66956	Duplicate Email	Called and left voicemail - this phone number was confirmed. Sent follow up email to <a href="mailto:mankato@nckcn.com">mankato@nckcn.com</a>	MKB
Y	Lower Republican	JEWELL	Mankato	City of Mankato	Streets Superintendent		Jim	Zadina	<a href="mailto:mankato@nckcn.com">mankato@nckcn.com</a>	785	3783141	217 S High St	Mankato	66956	Duplicate Email		
Y	Lower Republican	JEWELL	Webber	City of Webber	City Clerk	Clerk	Julie Ann	Cleveland		785	6480877	PO Box 235	Webber	66970	No city email		
Y	Lower Republican	JEWELL	Webber	City of Webber	Mayor	CEO	Lisa	Boyles	<a href="mailto:boyles@ruraltel.net">boyles@ruraltel.net</a>	402	8791054	PO Box 235	Webber	66970		Left voicemail on 10/15/2021 and sent follow up email.	MKB
Y	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County Emerge	Emergency Management Director	EM	David	Dohe	<a href="mailto:ddohe@mitchellcountys.gov">ddohe@mitchellcountys.gov</a>	785	7386535	114 South Campbell	Beloit	67420		Left voicemail and sent a follow up email on 10/15/2021.	MKB
Y	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County	County Clerk	Clerk	Chris	Treaster	<a href="mailto:ctreaster@mitchellcountys.gov">ctreaster@mitchellcountys.gov</a>	785	7383652	PO Box 190	Beloit	67420			
Y	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County	Commissioner, Chairman	CEO	Tom	Claussen	<a href="mailto:tclaussen@rhelectric.net">tclaussen@rhelectric.net</a>	785	73803819	PO Box 190	Beloit	67420			
Y	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County	Appraiser		Melinda	Latham	<a href="mailto:mcappraiser@mitchellcountys.gov">mcappraiser@mitchellcountys.gov</a>	785	7385061	111 S Hersey, PO Box 5	Beloit	67420			
Y	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County	GIS Coordinator		Clint	Offutt	<a href="mailto:clintoffutt@gmail.com">clintoffutt@gmail.com</a>	785	7385061	111 S Hersey	Beloit	67420			
N - contact verified, not person	Lower Republican	MITCHELL	MITCHELL COUNTY	Mitchell County	Public Works		Dale	Housh	<a href="mailto:highway@mitchellcountys.gov">highway@mitchellcountys.gov</a>	785	7382630	400 S. Campbell	Beloit	67420			
Y	Lower Republican	MITCHELL	Scottsville	City of Scottsville	City Clerk	Clerk	Priscilla	Stillwell	<a href="mailto:bpstillwell@gmail.com">bpstillwell@gmail.com</a>	785	4396592	3853 C Road	Beloit	67420			
Y	Lower Republican	MITCHELL	Scottsville	City of Scottsville	Mayor	CEO	Brian	Stillwell	<a href="mailto:bpstillwell@gmail.com">bpstillwell@gmail.com</a>	785	4396592	3853 C Road	Beloit	67420		Spoke with Priscilla - she confirmed email address and I sent a follow up email on 10/15/2021	MKB
Y	Lower Republican	REPUBLIC	REPUBLIC COUNTY	Republic County Emerge	Emergency Management Director	EM	Raymond	Raney	<a href="mailto:rc4@nckcn.com">rc4@nckcn.com</a>	785	5277237	1815 M St, Ste. 8	Belleville	66935		Called number - voicemail box gave a different number but I left a voicemail and followed up with an email to the EM Director	MKB
Y	Lower Republican	REPUBLIC	REPUBLIC COUNTY	Republic County	County Clerk	Clerk	Kathleen	Marsicek	<a href="mailto:kmarsicek@republiccounty.org">kmarsicek@republiccounty.org</a>	785	5277231	1815 M Street	Belleville	66935			
Y	Lower Republican	REPUBLIC	REPUBLIC COUNTY	Republic County	Appraiser		Barry	Porter	<a href="mailto:rpappraiser@republiccounty.org">rpappraiser@republiccounty.org</a>	785	5277229	1815 M Street	Belleville	66935			
Y	Lower Republican	REPUBLIC	REPUBLIC COUNTY	Republic County	Roads & Bridges		Ken	Robbins	<a href="mailto:krobbins@republiccounty.org">krobbins@republiccounty.org</a>	785	5272235	702 K Street	Belleville	66935			
Y	Lower Republican	REPUBLIC	REPUBLIC COUNTY	Republic County	Commissioner, Chairman	CEO	Edwin	Splichal	<a href="mailto:egsplichal@yahoo.com">egsplichal@yahoo.com</a>			1815 M Street	Belleville	66935			
Y	Lower Republican	REPUBLIC	Belleville	City of Belleville	City Clerk	Clerk	Russell	Piroutek	<a href="mailto:rpiroutek@nckcn.com">rpiroutek@nckcn.com</a>	785	5272288	1819 L Street, PO Box 280	Belleville	66935			
Y	Lower Republican	REPUBLIC	Belleville	City of Belleville	Mayor	CEO	Adam	Robertson	<a href="mailto:adam06@gmail.com">adam06@gmail.com</a>	785	5270191	1819 L Street, PO Box 280	Belleville	66935			
Y	Lower Republican	REPUBLIC	Belleville	City of Belleville	Public Works		Brian	Phillips	<a href="mailto:cobstreet@nckcn.com">cobstreet@nckcn.com</a>	785	5275663	1819 L Street, PO Box 280	Belleville	66935		Left a voicemail and sent a follow up on 10/15/21	MKB
Y	Lower Republican	REPUBLIC	Belleville	City of Belleville	City Manager		Adam	Anderson	<a href="mailto:aanderson@bellevillegov.com">aanderson@bellevillegov.com</a>	785	5272288	1819 L Street, PO Box 280	Belleville	66935			
Y	Lower Republican	REPUBLIC	Republic	City of Republic	City Clerk	Clerk	Cathy	Chase	<a href="mailto:cor66964@gmail.com">cor66964@gmail.com</a>	785	3612130	607 Washington Ave, PO Box 128	Republic	66964	Cathy's Cell Number: 785-527-3821		
Y	Lower Republican	REPUBLIC	Republic	City of Republic	Mayor	CEO	Randy	Thayer	<a href="mailto:cor66964@gmail.com">cor66964@gmail.com</a>	785	5271069	607 Washington Ave, PO Box 128	Republic	66964	Duplicate Email		
Y	Lower Republican	REPUBLIC	Republic	City of Republic	City Maintenance		Jim	Elliot	<a href="mailto:cor66964@gmail.com">cor66964@gmail.com</a>	785	8293083	607 Washington Ave, PO Box 128	Republic	66964	Duplicate Email	Follow up email sent on 10/15/2021	MKB
Y	Lower Republican	REPUBLIC	Scandia	City of Scandia	City Clerk	Clerk	Jan	Boman	<a href="mailto:scandia@nckcn.com">scandia@nckcn.com</a>	785	3352561	316 4th Street, PO Box 109	Scandia	66966			
Y	Lower Republican	REPUBLIC	Scandia	City of Scandia	Mayor	CEO	Gary	Cline	<a href="mailto:garybcline@yahoo.com">garybcline@yahoo.com</a>	785	4278515	316 4th Street, PO Box 109	Scandia	66966		Spoke with Gary on 9/02/2021 - Gave alot of good infomation regarding the flooding in the area	
N	Lower Republican	REPUBLIC	Scandia	City of Scandia	City Superintendent		Jerry	Swanson	<a href="mailto:cityshop@nckcn.com">cityshop@nckcn.com</a>	785	3357150	316 4th Street, PO Box 109	Scandia	66966			

Y	Lower Republican	REPUBLIC	Courtland	City of Courtland	City Clerk	Clerk	Marriah	Sis	<a href="mailto:cityoffice@courtland.net">cityoffice@courtland.net</a>	785	3744260	403 Main Street, PO Box 147	Courtland	66939		Spoke to Marriah on 9/8/21 - She or the mayor are the point people for the city.	DH
Y	Lower Republican	REPUBLIC	Courtland	City of Courtland	Mayor	CEO	Neely	Kohmetscher	<a href="mailto:cityoffice@courtland.net">cityoffice@courtland.net</a>	785	3744260	403 Main Street, PO Box 147	Courtland	66939	Duplicate Email		
N - see												403 Main Street, PO Box 147	Courtland	66939			
Comment	Lower Republican	REPUBLIC	Courtland	City of Courtland	Public Works		Nathaniel	Shelton	<a href="mailto:cityshop@courtland.net">cityshop@courtland.net</a>	785	3744260		Courtland	66939			
Y	Lower Republican	REPUBLIC	Courtland	City of Courtland	Councilmember		Tim	Garman	<a href="mailto:cityoffice@courtland.net">cityoffice@courtland.net</a>	785	3744260	403 Main Street, PO Box 147	Courtland	66939	Duplicate Email		
Y	Lower Republican	REPUBLIC	Agenda	City of Agenda	City Clerk	Clerk	Rhonda	Coffman	<a href="mailto:coff@jbntelco.com">coff@jbntelco.com</a>	785	7326413 or 2430199	106 6th St	Agenda	66930			
Y	Lower Republican	REPUBLIC	Agenda	City of Agenda	Mayor	CEO	Kent	Kalivoda	<a href="mailto:coff@jbntelco.com">coff@jbntelco.com</a>	785	7326469	106 6th St	Agenda	66930	Duplicate Email		
Y	Lower Republican	REPUBLIC	Agenda	City of Agenda	Water (Council Member)		Dale	Kopsa	<a href="mailto:coff@jbntelco.com">coff@jbntelco.com</a>	785	6142388	106 6th St	Agenda	66930	Duplicate Email	Spoke with Dale briefly on 9/8/21- he was busy and said an email would be better. I sent him the voicemail email we drafted and told him to forward it on if he wasnt the right person	DH
Y	Lower Republican	WASHINGTON	WASHINGTON COUNTY	Washington County Emergency Management Director	EM		Randy	Hubbard	<a href="mailto:wscoem@washingtoncountys.gov">wscoem@washingtoncountys.gov</a>	785	3252134	214 C Street	Washington	66968		Spoke with Randy on 9/02/2021 - says he can be the point person for flooding information. He will know as much as anyone else	DH
Y	Lower Republican	WASHINGTON	WASHINGTON COUNTY	Washington County	County Clerk	Clerk	Diana	Swanda	<a href="mailto:dswanda@washingtoncountys.gov">dswanda@washingtoncountys.gov</a>	785	3252974	214 C Street	Washington	66968			
Y	Lower Republican	WASHINGTON	WASHINGTON COUNTY	Washington County	Appraiser		Lance	Leis	<a href="mailto:lleis@washingtoncountys.gov">lleis@washingtoncountys.gov</a>	785	3252236	214 C Street	Washington	66968			
Y	Lower Republican	WASHINGTON	WASHINGTON COUNTY	Washington County	Roads & Bridges		Justin	Novak	<a href="mailto:jnovak@washingtoncountys.gov">jnovak@washingtoncountys.gov</a>	785	3252318	1561 Rainbow Road	Washington	66968			
N - See																	
Comment	Lower Republican	WASHINGTON	WASHINGTON COUNTY	Washington County	Commissioner, Chairman	CEO	David	Willbrant	<a href="mailto:dwillbrant@washingtoncountys.gov">dwillbrant@washingtoncountys.gov</a>	785	3252974	214 C Street	Washington	66968			
Y	Lower Republican	WASHINGTON	Linn	City of Linn	City Clerk	Clerk	Jayne	Lehman	<a href="mailto:dolehman@bluevalley.net">dolehman@bluevalley.net</a>	785	3485521	PO Box 66	Linn	66953	*No code listed on FPA list from KS CTP		
Y	Lower Republican	WASHINGTON	Linn	City of Linn	Mayor	CEO	Les	Spence	<a href="mailto:lspace@bluevalley.net">lspace@bluevalley.net</a>	785	7478746	PO Box 66	Linn	66953	*No code listed on FPA list from KS CTP		
N	Lower Republican	WASHINGTON	Linn	City of Linn	Public Works		Donald	Lehman	<a href="mailto:dolehman@bluevalley.net">dolehman@bluevalley.net</a>	785	5270733	PO Box 66	Linn	66953	Duplicate Email	Left Voicemail on 9/02/2021	DH
Y	Lower Republican	WASHINGTON	Linn	City of Linn	Water		Ned	Peters		785	5411009	PO Box 66	Linn	66953	*No code listed on FPA list from KS CTP	Left Voicemail on 9/02/2021	DH
N - Verify	Lower Republican	WASHINGTON	Palmer	City of Palmer	City Clerk	Clerk	Kadie	Voelker	<a href="mailto:cityofpalmer@bluevalley.net">cityofpalmer@bluevalley.net</a>	785	City: 6924260 Mobile: 2751063	215 N Illinois Street, PO Box 61	Palmer	66962		Number was a fax	DH
Y	Lower Republican	WASHINGTON	Palmer	City of Palmer	Mayor	CEO	Bill	Wilgers	<a href="mailto:sharon.wilgers@outlook.com">sharon.wilgers@outlook.com</a>	785	5411458	215 N Illinois Street, PO	Palmer	66962		Left Voicemail on 9/02/2021	DH
N	Lower Republican	WASHINGTON	Palmer	City of Palmer	City Superintendent		Ned	Peters	<a href="mailto:npeters@bluevalley.net">npeters@bluevalley.net</a>	785	5411009	215 N Illinois Street, PO	Palmer	66962			
Y	Lower Republican	WASHINGTON	Clifton	City of Clifton	City Clerk	Clerk	Danielle	Detrixhe	<a href="mailto:cityofclifton@twinvalley.net">cityofclifton@twinvalley.net</a>	785	4553711	104 E Parallel Street, PO	Clifton	66937			
Y	Lower Republican	WASHINGTON	Clifton	City of Clifton	Mayor	CEO	John	Tillinghast	<a href="mailto:jtillinghast@twinvalley.net">jtillinghast@twinvalley.net</a>	785	4276583	104 E Parallel Street, PO	Clifton	66937			
Y	Lower Republican	WASHINGTON	Clifton	City of Clifton	Public Works		Gary	Bouley	<a href="mailto:garybouley@gmail.com">garybouley@gmail.com</a>	785	6327028	104 E Parallel Street, PO	Clifton	66937		Spoke with Gary on 9/02/2021	DH
Y	Lower Republican	WASHINGTON	Vining	City of Vining	City Clerk	Clerk	Jacqueline	Koch	<a href="mailto:jkoch@twinvalley.net">jkoch@twinvalley.net</a>	785	4462849	PO Box 16	Clifton	66937	*No code listed on FPA list from KS CTP	Phone number was a personal residence. No voicemail was left.	
Y	Lower Republican	WASHINGTON	Vining	City of Vining	Mayor	CEO	Grant	Knoettgen	<a href="mailto:jkoch@twinvalley.net">jkoch@twinvalley.net</a>	785	4462849	PO Box 16	Clifton	66937	*No code listed on FPA list from KS CTP Duplicate Email	Try calling back	

## Appendix C

### Community Calls List and E-mail Addresses



**FEMA**



## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Thursday, September 2, 2021 1:39 PM  
**To:** pkemp.ems@claycountykansas.org  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Ms. Kemp,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve Clay County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Thursday, September 2, 2021 1:58 PM  
**To:** cityofmorg@yahoo.com  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Rowh,

As I mentioned on our call this afternoon, I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve the City of Morganville, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Thursday, September 2, 2021 2:28 PM  
**To:** wakefieldsuper@twinvalley.net  
**Cc:** Curley, Daniel; Halloran, Dani; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov  
**Subject:** Lower Republican Discovery Planning - City of Wakefield

Jeff,

Thank you for your time this afternoon. Your feedback is valuable and will help with our scope of potential studies to discuss in October at the Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October.

Some of the items we discussed include:

- Historic Flooding in Wakefield - 2019
  - Part of the town under water but no houses affected
  - Milford Lake approximately 30-33 feet high
  - City water well field was very close to the flooding. The site has been built up above the floodplain, but this would obviously be catastrophic if the well houses were inundated at all by flooding.
- City Clerk may have data (such as HMPs or spatial data) that could support our study

Please reach out if you have any other information or any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 10:45 AM  
**To:** citywastewater@claycenterks.com  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Kent,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve the City of Clay Center, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 10:53 AM  
**To:** [jquillen@cloudcountyks.org](mailto:jquillen@cloudcountyks.org)  
**Cc:** Curley, Daniel; [tara.lanzrath@ks.gov](mailto:tara.lanzrath@ks.gov); [joanna.rohlf@ks.gov](mailto:joanna.rohlf@ks.gov); Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

James,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the Cloud County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 11:00 AM  
**To:** street@concordiaaks.org  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Ron,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Concordia, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:00 PM  
**To:** jacobthoman87@gmail.com  
**Cc:** Halloran, Dani; Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov  
**Subject:** Lower Republican Discovery Planning - City of Jamestown  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf; LowerRep\_Custom\_Watershed.tif

Jacob,

Thank you for your time this afternoon and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss in October at the Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October.

Some of the items we discussed include:

- Existing flood hazards in Jamestown:

  - Buffalo Creek north of Jamestown can flood. When the water rises, it can flow back into a drainage ditch into Jamestown but this doesn't happen very often. In 2015 (approximately 6 years ago), this flooding caused a park to flood.

- The city drainage system is old and could use maintenance (currently has a lot of deposited sediment)

- City Records may have spatial data or other data we could potentially use to aid our study.

As discussed, I've attached an overview of the Risk MAP Discovery process to this email along with an overview map of the Lower Republican Watershed so you can see the area that is covered outside of Jamestown. Please reach out if you have any other information or any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**

*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:12 PM  
**To:** aurora.kansas@gmail.com  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

City of Aurora,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve the City of Aurora, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:24 PM  
**To:** clydeks@nckcn.com  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

City of Clyde,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve the City of Clyde, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:36 PM  
**To:** 'corwyn.trumpp@gearycounty.org'  
**Cc:** Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Corwyn,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve Geary County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:44 PM  
**To:** 'bradroether@yahoo.com'  
**Cc:** Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mayor Roether,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Milford, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 12:55 PM  
**To:** ray.ibarra@jcks.com  
**Cc:** Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Ibarra,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve Junction City, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, September 3, 2021 1:04 PM  
**To:** 'jcem@mankatoks.net'  
**Cc:** Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Kevin,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed “Discovery” and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I’ve attached an overview of the Discovery Process to provide more information.

To best serve Jewell County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 10:46 AM  
**To:** 'dsteel2@live.com'  
**Cc:** Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'; Halloran, Dani  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Knappert,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Jewell, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a Discovery meeting later this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*Pronouns: she, her, hers*

H&H Engineer, Surface Water – West  
M: 601-955-1727

[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 11:11 AM  
**To:** 'cityofrandall@yahoo.com'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Lower Republican Discovery Planning - City of Randall  
**Attachments:** LowerRep\_Custom\_Watershed.tif; 1.risk\_map\_discovery\_brochure.pdf

Mr. Gilbert,

Thank you for your time this morning and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss later this Winter at a Lower Republican Watershed Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document to help facilitate the meeting.

Some of the items we discussed include:

- Existing flood hazards in Randall:  
Buffalo Creek overflows regularly every Spring
- There are no additional Hazard Mitigation Plans for the City of Randall or data that we could leverage for our study

I've attached an overview of the Risk MAP Discovery process to this email along with an overview map of the Lower Republican Watershed so you can see the area that is covered. Please reach out if you have any other information or any questions.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
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## **Bryant, Katie**

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 12:12 PM  
**To:** 'mharris@ruraltel.net'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Lower Republican Discovery Planning - City of Burr Oak  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf; LowerRep\_Custom\_Watershed.tif

Mr. Harris,

Thank you for your time this afternoon and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss later this Winter at a Lower Republican Watershed Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document to help facilitate the meeting.

Some of the items we discussed include:

- Existing flood hazards in Burr Oak:

No existing flood hazards in Burr Oak. Last flood occurred around 1950.

- There are no additional Hazard Mitigation Plans for the City of Burr Oak or data that we could leverage for our study

I've attached an overview of the Risk MAP Discovery process to this email along with an overview map of the Lower Republican Watershed so you can see the area that is covered. Please reach out if you have any other information or any questions.

Thanks,

**Katie Bryant, PE, CFM**

*she/her/hers*

Hydrology and Hydraulic Engineer

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## **Bryant, Katie**

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 12:22 PM  
**To:** broush@usd107.org  
**Cc:** Halloran, Dani; Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov  
**Subject:** Lower Republican Discovery Planning - City of Formoso  
**Attachments:** LowerRep\_Custom\_Watershed.tif; 1.risk\_map\_discovery\_brochure.pdf

Bob,

Thank you for your time this afternoon and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss later this Winter at a Lower Republican Watershed Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document to help facilitate the meeting.

Some of the items we discussed include:

- There are no existing flood hazards or flooding related issues that you are aware of in Formoso
- There are no additional Hazard Mitigation Plans for the City of Formoso other than the County plans and no data that we could leverage for our study

I've attached an overview of the Risk MAP Discovery process to this email along with an overview map of the Lower Republican Watershed so you can see the area that is covered. Please reach out if you have any other information or any questions.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 12:43 PM  
**To:** [mankato@nckcn.com](mailto:mankato@nckcn.com)  
**Cc:** Curley, Daniel; Halloran, Dani; [tara.lanzrath@ks.gov](mailto:tara.lanzrath@ks.gov); [joanna.rohlf@ks.gov](mailto:joanna.rohlf@ks.gov)  
**Subject:** Feedback for Risk MAP Discovery Effort - Water Superintendent  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Badger,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Mankato, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 12:56 PM  
**To:** 'boyles@ruraltel.net'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Lisa,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Webber, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
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## Bryant, Katie

---

**From:** David Dohe <ddohe@mitchellcountyks.gov>  
**Sent:** Thursday, October 28, 2021 10:09 AM  
**To:** Bryant, Katie  
**Subject:** [EXTERNAL] RE: Feedback for Risk MAP Discovery Effort

The only places that I am aware of is the Solomon Valley Veterinary Hospital located at [REDACTED] Henry Trail, Beloit, KS 67420 contact phone [REDACTED], and Trevor Stamma residence located at [REDACTED] Felix Trail, Glen Elder Kansas contact number [REDACTED]

I don't know if this information helps or if this is what you are looking for.  
Just keep me posted on when your meeting will happen and I will be glad to participate.  
Should you have any further questions please feel free to contact me.  
Thank you,

David Dohe

---

**From:** Bryant, Katie <katie.bryant@aecom.com>  
**Sent:** Friday, October 15, 2021 2:09 PM  
**To:** ddohe@mitchellcountyks.gov  
**Cc:** Curley, Daniel <Daniel.Curley@aecom.com>; Halloran, Dani <dani.halloran@aecom.com>; Lanzrath, Tara [KDA] <Tara.Lanzrath@ks.gov>; Rohlf, Joanna [KDA] <joanna.rohlf@ks.gov>  
**Subject:** Feedback for Risk MAP Discovery Effort

David,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve Mitchell County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 1:15 PM  
**To:** 'bpstillwell@gmail.com'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Stillwell,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Scottsville, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 1:22 PM  
**To:** 'rc4@nckcn.com'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Feedback for Risk MAP Discovery Effort  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Raney,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve Republic County, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 1:30 PM  
**To:** 'cobstreet@nckcn.com'  
**Cc:** Halloran, Dani; Curley, Daniel; 'tara.lanzrath@ks.gov'; 'joanna.rohlf@ks.gov'  
**Subject:** Feedback for Risk MAP Discovery Effort - Public Works Director  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Brian,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Belleville, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## Bryant, Katie

---

**From:** Bryant, Katie  
**Sent:** Friday, October 15, 2021 1:36 PM  
**To:** cor66964@gmail.com  
**Cc:** Halloran, Dani; Curley, Daniel; tara.lanzrath@ks.gov; joanna.rohlf@ks.gov  
**Subject:** Feedback for Risk MAP Discovery Effort - City Maintenance  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Elliot,

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City of Republic, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document to help facilitate a Discovery meeting this Winter. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Katie Bryant, PE, CFM**  
*she/her/hers*  
Hydrology and Hydraulic Engineer  
[katie.bryant@aecom.com](mailto:katie.bryant@aecom.com)

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## **Bryant, Katie**

---

**From:** Halloran, Dani  
**Sent:** Thursday, September 2, 2021 2:43 PM  
**To:** wscoem@washingtoncountyks.gov  
**Cc:** Rohlf, Joanna [KDA]; Lanzrath, Tara [KDA]; Curley, Daniel; Bryant, Katie  
**Subject:** Lower Republican Discovery Planning - Washington County

Randy-

Thank you for your time this afternoon and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss in October at the Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October.

Some of the items we discussed include:

- No residents within the county (structures) that reside within Flood Zones
- Gas substation outside of Palmer could be a risk
- Not a lot of roads overtopping – maybe a few rural roads with significant rain
- Not a lot of development planned in the future
- Heavy population of dairy farmers in the County with lagoons– KDA should have all that livestock information. Also Beef feedlots and production in the county.

Please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Dani Halloran**  
Graduate Water Resources Engineer  
C: 602-762-1149

Dani.halloran@aecom.com

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## Bryant, Katie

---

**From:** Halloran, Dani  
**Sent:** Wednesday, September 8, 2021 9:49 AM  
**To:** dalesrepair@hotmail.com; coff@jbntelco.com  
**Cc:** Curley, Daniel; Lanzrath, Tara [KDA]; Rohlf, Joanna [KDA]; Bryant, Katie  
**Subject:** Feedback for Risk MAP Discovery Effort - City of Agenda  
**Attachments:** 1.risk\_map\_discovery\_brochure.pdf

Mr. Kopsa and the City of Agenda-

I wanted to follow up to an email you should have received from KDA regarding a flood study update that is being initiated for the Lower Republican Watershed. As we begin the Risk Mapping, Assessment, and Planning (MAP) process, the first step is termed "Discovery" and involves KDA and their contractor, AECOM, gathering information about existing flood hazards and risks to help prioritize potential mitigation actions for communities. I've attached an overview of the Discovery Process to provide more information.

To best serve the City or Agenda, any feedback that you could provide such as existing hazards and risks, Hazard Mitigation Plans other than the regional plans, ongoing hydraulic studies or Letters of Map Change, available spatial data that could support our study, or anything else you feel we should be aware of in your community would be greatly appreciated.

Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate a **Discovery meeting in October**. If you would like to set up a call to discuss this further, please let me know and please reach out if you have any questions. Looking forward to meeting you at the Discovery meeting.

Thanks,

**Dani Halloran**  
Graduate Water Resources Engineer  
AECOM – Water Business Unit – Denver, CO  
C: 602-762-1149

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## **Bryant, Katie**

---

**From:** Halloran, Dani  
**Sent:** Wednesday, September 8, 2021 10:05 AM  
**To:** cityoffice@countland.net  
**Cc:** Curley, Daniel; Lanzrath, Tara [KDA]; Rohlf, Joanna [KDA]; Bryant, Katie  
**Subject:** Lower Republican Discovery Planning- City of Courtland

Marriah-

Thank you for your time this afternoon and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss in October at the Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October.

Some of the items we discussed:

- Main hazards are the normal thunderstorms that roll through the area
- Not a lot of flooding seen in the area
- Not a lot of future development

Please reach out if you have any other information or any questions.

Thanks,

**Dani Halloran**  
Graduate Water Resources Engineer  
AECOM – Water Business Unit – Denver, CO  
C: 602-762-1149

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## Bryant, Katie

---

**From:** Halloran, Dani  
**Sent:** Wednesday, September 8, 2021 10:32 AM  
**To:** garybcline@yahoo.com  
**Cc:** Curley, Daniel; Bryant, Katie; Lanzrath, Tara [KDA]; Rohlf, Joanna [KDA]  
**Subject:** Lower Republican Discovery Planning - City of Scandia

Gary-

Thank you for your time this morning and the information you provided. Your feedback is valuable and will help with our scope of potential studies to discuss in October at the Discovery Meeting. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October.

Some of the items we discussed:

- Main hazards in the city are flooding, tornados, and thunderstorms
- The city is right off the Republican River to the West
  - o Flooding occurs on the west side of the city
  - o There are drainage ditches that flow from east to west that can handle runoff when the river hasn't seen a big rain event. When larger storms roll through and the Republican river is at a high stage, the drainage basins have no place to drain and in turn cause flooding.
- Homes on the west side of town flood, around 3 or 4 of them see flooding recurrently
  - o Along Republic St. - To protect personal identifiable information I added a photo of the area. There has been a home owner that has moved from the area to higher ground.



- o Kansas and 1st St. – drainage ditch that crosses the road and frequently floods during rain storms. They City puts signage to stop people from crossing.
- City doesn't have a lot of data – when rains come the layout of the waterlines is exactly like the maps say
- Not a lot of development planned- there is need for housing and the only plots the City has to offer are in the flood zone

Please reach out if you have any other information or any questions. I look forward to meeting you at the Discovery meeting.

Thanks,

**Dani Halloran**

Graduate Water Resources Engineer  
AECOM – Water Business Unit – Denver, CO  
C: 602-762-1149

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## Bryant, Katie

---

**From:** Halloran, Dani  
**Sent:** Wednesday, October 20, 2021 3:40 PM  
**To:** Bryant, Katie  
**Subject:** FW: Lower Republican Discovery Planning - City of Clifton

### Dani Halloran

Graduate Water Resources Engineer  
AECOM – Water Business Unit – Denver, CO  
C: 602-762-1149

### AECOM

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---

**From:** Halloran, Dani  
**Sent:** Thursday, September 2, 2021 1:41 PM  
**To:** garybouley@gmail.com  
**Cc:** Lanzrath, Tara [KDA] <Tara.Lanzrath@ks.gov>; Rohlf, Joanna [KDA] <joanna.rohlf@ks.gov>; Curley, Daniel <Daniel.Curley@aecom.com>  
**Subject:** Lower Republican Discovery Planning - City of Clifton

Gary-

Thanks for your time this afternoon. We will look at the areas of flooding you pointed out and include them in our report. Our project team will be sending out a meeting invite along with a draft document at the end of this month to help facilitate the meeting in October. Please reach out if you have any question. Looking forward to meeting you at the Discovery meeting.

Some of the items we discussed include:

- Main hazards in the City: Nothing bad in terms of flash flooding. There have been a few tornados close by. There are some water pooling problems during bigger storms that occur in the southwest portion of town working its way to the east. The north side of town sits slightly higher and hasn't seen flooding issues.
- Main ditch on the south side of town backs up, cleanup efforts needed. Open ditch that flows through culverts.
- Hazard Mitigation Plan- likely your part of the larger region wide HMP
- Not much changing in terms of development
- Not aware of any data.

Thanks,

### Dani Halloran

Graduate Water Resources Engineer  
AECOM – Water Business Unit – Denver, CO  
C: 602-762-1149

**Appendix D**  
**Discovery Meeting Materials**  
**(TBD)**



**FEMA**



**Appendix E**  
**Discovery Meeting Flood-Related**  
**Mitigation Actions**  
**(TBD)**



**FEMA**



Appendix F  
Hazard Mitigation Plan  
Table Excerpts



**FEMA**



## LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION B	
Identification	Description
Phillips County-1	Educate and promote local jurisdiction participation in the NFIP.
Phillips County-2	Collect and make available educational materials on individual and family preparedness/mitigation measures.
Phillips County-4	Annually host a public hazards workshop at public event.
Phillips County-13	Research and recommend completion of an NFIP application for admittance to the NFIP.
Phillips County-18	Prepare and adopt an Outdoor Warning Sirens Plan for the county. Seek funding to install new warning sirens in accordance with the plan recommendations.
Phillips County-19	Research and recommend development of a Comprehensive Land Use Plan for Phillips County.
Phillips County-20	Conduct inventory/survey for the county's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment, or required resources. Fund identified shortfalls.
Phillips County-21	Update county Geographic Information System (GIS) capabilities, including purchasing new mapping software, computers and large printers.
Phillips County-22	Identify the county's most at-risk vital/critical facilities and evaluate the potential mitigation techniques for protecting each facility in a cost-effective manner.



FEMA



# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION F	
Identification	Description
Clay County – 1	Clay County is committed to continued participation and compliance with the NFIP.
Clay County – 2	Advertise and promote the availability of flood insurance to property owners by direct mail once a year. (NFIP).
Clay County – 3	Conduct NFIP community workshops to provide information and incentives for property owners to acquire flood insurance. (NFIP).
Clay County – 4	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners and display at both the library and routinely visited jurisdiction offices.
Clay County – 9	Purchase generators for the county's vital/critical facilities.
Clay Center – 1	Continued participation and compliance with the NFIP.
Clay Center – 2	Install flood controls at Clay Center wastewater treatment plant. (NFIP)
Clay Center – 3	Make improvements to the existing Clay Center storm water system. (NFIP)
Clay Center – 4	Request a review and update of floodplain maps for the City of Clay Center. (NFIP)
Clay Center – 6	Construct a new recreation center to be used in time of disaster as a community shelter for the residents of Clay Center and center for emergency resources.
Clay Center – 9	Fund and purchase weather radios to equip 75 percent of Clay Center businesses and residences.
Morganville – 1	The City of Morganville is committed to continued participation and compliance with the NFIP.
Morganville – 2	Advertise and promote the availability of flood insurance to property owners by direct mail once a year. (NFIP)
Morganville – 4	Promote the use of NOAA All Hazards Weather Radios for the entire community of Morganville. Seek funding to subsidize purchase and distribution of weather radios.
Wakefield – 1	The City of Wakefield is committed to continued participation and compliance with the NFIP.
Wakefield – 2	Advertise and promote the availability of flood insurance to property owners by direct mail once a year. (NFIP)
Wakefield – 3	Promote the use of NOAA All Hazards Weather Radios for the entire community of Wakefield. Seek funding to subsidize purchase and distribution of weather radios.
Cloud County – 1	Cloud County is committed to continued participation and compliance with the NFIP.
Cloud County – 2	Purchase and demolish properties located in the floodplains in the county. (NFIP)
Cloud County – 3	Conduct NFIP community workshops provide information and incentives property owners to acquire flood insurance. (NFIP)
Cloud County – 4	Install electronic water level warning devices at key areas upstream to notify the emergency management department of possible impending floods. (NFIP)
Cloud County – 5	Purchase and install a multi-purpose public address and warning system.
Cloud County – 6	Build community storm shelters around the county to be prepared for all hazard events.
Cloud County – 7	Build an Emergency Operations Center/911 Call Center/Community Safe room.
Cloud County – 8	Conduct county-wide tree-trimming program to cut down branches and trees away from power lines and drainage areas.
Cloud County – 17	Purchase a reverse 911 system for the community.
Aurora – 1	Provide a NOAA Weather Radio to all residents.
Aurora – 2	Build community FEMA-approved safe room(s).

# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION F	
Identification	Description
Clyde – 1	Fund the hiring of a consultant to develop stormwater management plan for Riley County. (NFIP).
Clyde – 2	Fund the formation of a Wildcat Creek Watershed District. (NFIP).
Clyde – 3	Fund a study to identify the county's critical facilities and infrastructure and develop mitigation techniques for protecting each facility in a cost-effective manner.
Clyde – 4	Construct FEMA-approved community safe room(s).
Clyde – 5	Have a community-wide tree trimming program to cut down branches and trees away from power lines and drainage areas.
Concordia – 1	Continue participation in the NFIP.
Concordia – 2	Continued enforcement of floodplain ordinance. (NFIP)
Concordia – 3	Provide a NOAA Weather Radio to students and residents in the county to warn them of weather events (including lightning and hail events).
Jamestown – 1	Provide a NOAA Weather Radio to students and residents in the county to warn them of weather events. The program would allow residents to purchase the radios at a reduced price.
Jamestown – 2	Build community FEMA-approved safe room(s).
Jamestown – 3	Purchase generators for critical facilities.
Miltonvale – 1	Continue participation in the NFIP.
Miltonvale – 2	Continued enforcement of floodplain ordinance. (NFIP)
Miltonvale – 3	Institute a drainage and storm water management program. (NFIP)
Miltonvale – 4	Provide a NOAA Weather Radio to students and residents in the county to warn them of weather events. The program would allow residents to purchase the radios at a reduced price.
Miltonvale – 5	Construct FEMA-approved community safe room(s).
Miltonvale – 6	Tree trimming and branch removal program.
Dickinson County – 1	Dickinson County is committed to continued participation and compliance with the NFIP.
Dickinson County – 2	Purchase and demolish properties located in the floodplains in the county. (NFIP)
Dickinson County – 3	Conduct NFIP community workshops to provide information and incentives for property owners to acquire flood insurance. (NFIP)
Dickinson County – 4	Update current effective FIRMs. (NFIP)
Dickinson County – 6	Update countywide warning system.
Dickinson County – 7	Educate residents of the county about driving in winter storms and handling winter-related health effects.
Dickinson County – 8	Provide mobile generators for water/wastewater system operations.
Jewell County – 1	Encourage local participation in the NFIP.
Jewell County – 2	Provide public education on both the potential impacts of hazard events and potential mitigation strategies.
Jewell County – 3	Provide a NOAA Weather Radio to students and residents in the county to warn them of weather events at reduced prices.
Jewell County – 4	Purchase backup generators for all county critical facilities.
Jewell County – 5	Purchase above ground gas pumps for county and city vehicles in times of disasters with a backup generator.
Jewell County – 6	Build storm shelters around the county to be prepared for all hazard events.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION F	
Identification	Description
Jewell County – 8	Continue to keep 911 systems up to date so that when NG 911 comes online we will be prepared.
Jewell County – 10	Continue to upgrade equipment for emergency responders, including the purchase of necessary equipment.
Burr Oak – 1	Continued participation in the NFIP.
Burr Oak – 2	Continued enforcement of floodplain ordinance. (NFIP)
Burr Oak – 3	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens and radios.
Burr Oak – 4	Purchase and install a permanent backup generator for the city office to provide electricity in the event of a power outage during any emergency.
Burr Oak – 5	Purchase and install a permanent backup generator for the fire house to provide electricity in the event of a power outage during any emergency.
Burr Oak – 6	Purchase an emergency portable light tower.
Esbon – 1	Continued participation in the NFIP.
Esbon – 2	Continued enforcement of floodplain ordinance. (NFIP)
Esbon – 3	Purchase and install a multi-purpose public address and warning system.
Esbon – 4	Provide a NOAA Weather Radio to students and residents in the city to warn them of weather events at reduced prices.
Esbon – 5	Build community storm shelters.
Formoso – 1	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens and radios.
Formoso – 2	Purchase and install a permanent backup generators for the critical city facilities.
Formoso – 3	Build community storm shelters.
City of Jewell – 1	Continued participation in the NFIP.
City of Jewell – 2	Continued enforcement of floodplain ordinance. (NFIP)
City of Jewell – 3	Inform the public with hazard information on drought, dam failure, earthquakes, extreme heat, hazardous materials, pandemic, thunderstorms, tornados, wildfire, and winter storms in hazard awareness literature and presentations.
City of Jewell – 4	Purchase and install a permanent backup generator for the city office/community center to provide electricity in the event of a power outage during any emergency.
City of Jewell – 5	Purchase and install a permanent backup generator for the fire house to provide electricity in the event of a power outage during any emergency.
City of Jewell – 6	Purchase an emergency portable light tower. When responding to a fire or emergency it would be helpful to have lighting that may be set up at any locale.
Mankato – 1	Continued participation in the NFIP.
Mankato – 2	Continued enforcement of floodplain ordinance. (NFIP)
Mankato – 3	Provide educational materials about hazards to the public in their utility bills.
Mankato – 4	Build community storm shelters.
Mankato – 5	Have a communitywide tree-trimming program to cut down branches and trees away from power lines and drainage areas.
Webber – 1	Purchase and install a permanent backup generator for the city office to provide electricity in the event of a power outage during any emergency.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION F	
Identification	Description
Webber – 2	Purchase and install outdoor warning devices within the city limits, to include sirens and radios.
Webber – 3	Build community storm shelters.
Michell County – 1	The County is committed to continued participation and compliance with the NFIP.
Mitchell County – 2	Conduct NFIP community workshops to provide information and incentives for property owners to acquire flood insurance.
Michell County – 3	Develop a program to acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners. (NFIP)
Michell County – 4	Initiate a planning committee to identify flash-flood prone areas to consider flood reduction measures to county planners. (NFIP)
Michell County – 5	Collect educational materials on individual and family preparedness/mitigation measures for property owners and display at both the library and routinely visited county offices.
Mitchell County – 8	Install safe rooms in Mitchell County Hospital Health Systems as per FEMA standards.
Scottsville – 2	Seek funding to install new warning sirens.
Republic County – 1	Continue to participate in NFIP.
Republic County – 2	Ditch Cleaning/Deepening. Clean and deepen ditches in the county. (NFIP).
Republic County – 3	Develop minimum performance standards in flood prone areas to comply with NFIP guidelines.
Republic County – 4	Monitor floodplain Activities. Continue to monitor floodplain activities to ensure that structures are reasonably safe from flooding. (NFIP)
Republic County – 5	Acquire LIDAR mapping system to assist with flood control projects. (NFIP)
Republic County – 6	Integrate GIS into emergency mitigation. Use GIS equipment to map critical infrastructure and hazard prone areas.
Agenda – 1	Improve Public Awareness of Hazard Risks. Improve public awareness of hazard risks through educational programs.
Agenda – 4	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
Belleville – 1	Improve public awareness of hazard risks through educational programs.
Belleville – 2	Promote and seek funding for the use of NOAA weather radios including citizen purchase of receivers.
Belleville – 5	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
Courtland – 1	Continued participation and compliance with the NFIP.
Courtland – 2	Continued enforcement of floodplain ordinance. (NFIP)
Courtland – 3	Continue to monitor floodplain activities. (NFIP)
Courtland – 4	Upgrade/expand/improve the storm water management system. (NFIP)
Courtland – 8	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
Cuba – 1	Continued participation and compliance with the NFIP.
Cuba – 2	Continued enforcement of floodplain ordinance (NFIP).
Cuba – 4	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.



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# LOWER REPUBLIC DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION F	
Identification	Description
Munden – 2	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
City of Republic – 1	Continued participation and compliance with the NFIP.
City of Republic – 2	Continued enforcement of floodplain ordinance. (NFIP)
City of Republic – 3	Improve public awareness of hazard risks through educational programs.
City of Republic – 4	Purchase and promote the use of NOAA weather radios for discount citizen purchase.
City of Republic – 5	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
Scandia – 1	Continued participation and compliance with the NFIP.
Scandia – 2	Continued enforcement of floodplain ordinance. (NFIP)
Scandia – 3	Continue to monitor floodplain activities. (NFIP)
Scandia – 4	Upgrade/expand/improve the storm water management system. (NFIP)
Scandia – 9	Acquire outdoor warning systems and other early warning devices within the city limits, to include sirens, radios.
Smith County – 1	The County and local governments will work with the KDA-Division of Water Resources to educate and promote local jurisdictional participation in the NFIP.
Smith County – 2	Research and recommend completion of an application for admittance to the NFIP.
Smith County – 3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners and display at both the library and routinely visited public offices.
Smith County – 8	Prepare and adopt an Outdoor Warning Sirens Plan for the county, including consideration of the unique geographical locations, technical requirements, system types and operational procedures of each local jurisdiction. Install sirens in underserved areas.
Smith County – 12	Seek funding to subsidize purchase and distribution of NOAA weather radios.
Smith County – 15	Research and recommend development of a Comprehensive Land Use Plan for Smith County.
Lebanon – 1	Prepare and adopt an Outdoor Warning Sirens Plan for the city and purchase and install sirens as per recommendations.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION I	
Identification	Description
Geary County – 1	Geary County is committed to continued participation and compliance with the NFIP.
Geary County – 2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP).
Geary County – 3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.
Geary County – 4	Regularly host a public hazards workshop in combination with local festivals, fairs, or other appropriate events.
Geary County – 5	Research, design, and recommend an appropriate stream buffer ordinance to further protect the jurisdiction's water resources and to limit future flood damages adjacent to major waterways.
Geary County – 9	Research and develop a Comprehensive Land Use Plan for Geary County. (NFIP).
Geary County – 10	Identify flash-flood prone areas to implement flood reduction measures. (NFIP).
Geary County – 11	Develop and recommend an amendment to the existing Flood Damage Prevention Ordinance to include a "no-rise (in base flood elevation)" clause for the county. (NFIP).
Geary County – 12	Conduct an inventory/survey for the emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment, or required resources.
Junction City – 1	Junction City is committed to continued participation and compliance with the NFIP.
Junction City – 2	Seek funding for retention projects to decrease exposure to flooding. (NFIP).
Junction City – 3	Improve storm management by completing projects throughout the city. (NFIP).
Junction City – 4	Seek funding to bring GIS System improvements up to par.
Junction City – 5	Establish a disaster evacuation plan.
Milford – 5	Develop and implement flood mitigation projects for the City of Milford. (NFIP).
Riley County – 1	Riley County is committed to continued participation and compliance with the NFIP.
Riley County – 2	Fund a reoccurring outreach program to educate citizens about the advantage of protecting their property from flooding and complying with NFIP.
Riley County – 3	Fund a recurring outreach program to educate citizens about emergency preparedness and mitigation measures.
Riley County – 5	Advertise and promote the availability of flood insurance to county property owners by direct mail once a year. (NFIP).
Riley County – 6	Fund a future conditions floodplain map that depicts the extent of the 1-percent floodplain following the build out of City of Manhattan to 2035. (NFIP).
Riley County – 9	Fund the hiring of a consultant to develop higher standard floodplain regulations. (NFIP).
Riley County – 10	Fund the expansion of outdoor warning and notification system.
Riley County – 11	Purchase and install an engineered radio system that allows county-wide interoperability with regional and state partners and train users on system.
Riley County – 13	Fund a program for buyout/relocation. This would include the acquisition of parcels of land within the 1-percent-annual-chance floodplain from willing property owners, the relocation of structures and their occupants, demolition, and any necessary environmental remediation.
Riley County – 14	Fund a software program to conduct risk analysis and assessments for land use decision making.
Riley County – 15	Fund the hiring of a consultant to develop zoning and subdivision regulations to mitigate hazards.
Riley County – 16	Fund the hiring of a consultant to develop stormwater management plan for Riley County. (NFIP).



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## LOWER REPUBLICAN DRAFT DISCOVERY REPORT

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HAZARD MITIGATION PLAN REGION I	
Identification	Description
Riley County – 18	Fund the formation of a Wildcat Creek Watershed District. (NFIP).
Riley County – 19	Fund a study to identify the county's critical facilities and infrastructure and develop mitigation techniques for protecting each facility in a cost-effective manners.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION I	
Identification	Description
Washington County – 1	Educate and promote local jurisdictional participation in the NFIP.
Washington County – 2	Advertise and promote the availability of flood insurance to property owners by direct mail once a year.
Washington County – 3	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Washington County – 4	Annually host a public “hazards workshop” for the residents of the county in combination with local festivals, fairs, or other events drawing large crowds.
Washington County – 5	Educate residents about driving in winter storms and handling winter-related health effects.
Washington County – 9	Research and recommend a floodplain management ordinance for admittance to the NFIP to make flood insurance available to residents in the jurisdiction.
Washington County – 11	Research and consider development of a Comprehensive Land Use Plan for Washington County.
Washington County – 12	Conduct an inventory/survey for the emergency response services to identify any existing needs or shortfalls in terms of personnel equipment or required resources.
Washington County – 14	Develop cross-departmental information collection capabilities, and incorporate cadastral data utilizing GIS.
Washington County – 24	Identify the County’s most at-risk critical facilities and evaluate potential mitigation techniques for protecting each facility to the maximum extent possible.
Clifton – 1	Educate and promote local jurisdictional participation in the NFIP.
Clifton – 2	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Clifton – 3	Annually host a public “hazards workshop” for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events drawing large crowds.
Clifton – 5	Educate residents about driving in winter storms and handling winter-related health effects.
Clifton – 10	Seek funding to assure that all citizens are equipped with NOAA Weather Radios.
Greenleaf – 1	Educate and promote local jurisdictional participation in the NFIP.
Greenleaf – 2	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Greenleaf – 3	Annually host a public “hazards workshop” for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events drawing large crowds.
Greenleaf – 5	Educate residents about driving in winter storms and handling winter-related health effects.
Greenleaf – 10	Seek funding to assure that all citizens are equipped with NOAA Weather Radios.
Linn – 1	Educate and promote local jurisdictional participation in the NFIP.
Linn – 2	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Linn – 3	Annually host a public “hazards workshop” for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events drawing large crowds.
Linn – 5	Educate residents about driving in winter storms and handling winter-related health effects.
Linn – 9	Seek funding to assure that all citizens are equipped with NOAA Weather Radios.
Linn – 10	Educate and promote local jurisdictional participation in the NFIP.
Palmer – 1	Educate and promote local jurisdictional participation in the NFIP.



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# LOWER REPUBLICAN DRAFT DISCOVERY REPORT

HAZARD MITIGATION PLAN REGION I	
Identification	Description
Palmer – 2	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Palmer – 3	Annually host a public “hazards workshop” for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events drawing large crowds.
Palmer – 5	Educate residents about driving in winter storms and handling winter-related health effects.
Palmer – 9	Assess flood prone areas and recommend flood reduction measures to city planners.
Palmer – 10	Seek funding to assure that all citizens are equipped with NOAA Weather Radios.
Vining – 1	Upgrade/expand/improve Stormwater Management System.
Vining – 2	Educate and promote local jurisdictional participation in NFIP.
Vining – 3	Collect and distribute educational materials on individual and family preparedness/mitigation measures for property owners.
Vining – 4	Annually host a public “hazards workshop” for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events drawing large crowds.
Vining – 6	Educate residents about driving in winter storms and handling winter-related health effects.
Vining – 10	Seek funding to assure that all citizens are equipped with NOAA Weather Radios.
Vining – 11	Develop a program or system for supporting vulnerable populations during emergency events.



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